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AIR FORCE OCCUPATIONAL MEASUREMENT CENTER LACKLAND A--ETC F/G 5/9
SUMMARY REPORT FOR AFSCS TRAINED AT LOWRY AFB.(U)

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OCCUPATIONAL SURVEY REPORT. ELECTRONIC PRINCIPLES.

Report on

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Charles D. Gorman

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SUMMARY REPORT FOR
AFSCs TRAINED AT LOWRY AFB.

AFPT-90-XXX-222

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OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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TABLE OF CONTENTS

	<u>PAGE NUMBER</u>
PREFACE -----	2
INTRODUCTION -----	3
DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI) -----	3
ADMINISTRATION -----	4
PRESENTATION OF RESULTS -----	7
APPENDIX -----	8

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PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of airmen in Air Force Specialties for which training is provided at Lowry AFB.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey report was prepared by Capt Charles D. Gorman. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF
Commander
USAF Occupational Measurement Center

WALTER E. DRISKILL, Ph.D.
Chief, Occupational Survey Branch
USAF Occupational Measurement Center

ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT
SUMMARY FOR AFSCs TRAINED AT LOWRY AFB

INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory (EPI) to airmen assigned to Air Force Specialties for which training is provided at Lowry AFB. The data for this report were collected during the period January 1976 through September 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by airmen in specialties trained at Lowry AFB. This report is intended as a summary of EPI data. More complete information on any given AFSC can be obtained by examining the Electronic Principles Occupational Survey Report for that AFSC. Such reports are available upon request from the USAF Occupational Measurement Center, Lackland AFB, Texas 78236.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas and the item numbers contained therein.

A more detailed history of the development and validation of the Electronic Principles Inventory is contained in OM Technical Note 77-02, The Development and Application of the Electronic Principles Job Inventory, October 1977. Copies of this Technical Note are available upon request to the Branch Chief, OMY, USAF Occupational Measurement Center, Lackland AFB, Texas 78236.

ADMINISTRATION

The Electronic Principles Inventory was administered either by mail or in person to airmen in 16 specialties for which training is provided at Lowry AFB. Those specialties are listed in Table 2. More detailed information concerning the survey sample for any given specialty can be obtained from the previously mentioned report for that specialty.

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TABLE 1
EPI SUBJECT AREAS

<u>SUBJECT AREA TITLE</u>	<u>BEGINNING ITEM NUMBER</u>
MATHEMATICS	A1
DIRECT CURRENT AND VOLTAGE	A15
RESISTANCE	A24
MULTIMETER USES	B52
ALTERNATING CURRENT	B61
INDUCTORS AND INDUCTIVE REACTANCE	B67
CAPACITORS AND CAPACITIVE REACTANCE	C92
TRANSFORMERS	C128
MAGNETISM	C171
RCL CIRCUITS	D185
SERIES AND PARALLEL RESONANCE (TIME CONSTANTS)	D229
FILTERS	D239
COUPLING	E261
SOLDERING	E273
RELAYS	E295
MICROPHONES	F314
SPEAKERS	F327
OSCILLOSCOPES	F342
SEMICONDUCTOR DIODES	G354
TRANSISTORS	G404
TRANSISTOR AMPLIFIERS	G428
SOLID-STATE SPECIAL PURPOSE DEVICES	H477
POWER SUPPLIES	H483
OSCILLATORS	H512
MULTIVIBRATORS	I539
LIMITERS AND CLAMPERS	I555
ELECTRON TUBES	I565
ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J609
SPECIAL PURPOSE ELECTRON TUBES	J616
HETERODYNING, MODULATION, AND DEMODULATION	J632
AM SYSTEMS	K638
FM SYSTEMS	K666

TABLE 1 (CONTINUED)

EPI SUBJECT AREAS

<u>SUBJECT AREA TITLE</u>	<u>BEGINNING ITEM NUMBER</u>
NUMBERING SYSTEMS	K685
LOGIC FUNCTIONS	L695
BOOOLEAN EQUATIONS	L708
COUNTERS	L733
TIMING CIRCUITS	M757
USE OF SIGNAL GENERATORS	M769
MOTORS AND GENERATORS	M779
METER MOVEMENTS	N808
SATURABLE REACTORS AND MAGNETIC AMPLIFIERS	N818
WAVESHAPING CIRCUITS	N834
SINGLE SIDEBAND SYSTEMS	O845
PULSE MODULATION SYSTEMS	O875
ANTENNAS	O914
TRANSMISSION LINES	P953
WAVEGUIDES AND CAVITY RESONATORS	P984
MICROWAVE AMPLIFIERS AND OSCILLATORS	P1034
REGISTERS	Q1110
STORAGE DEVICES	Q1117
DIGITAL TO ANALOG CONVERTERS	Q1126
PHANTASTRONS	Q1140
SCHMITT TRIGGERS	R1141
CABLE FABRICATION	R1144
INPUT/OUTPUT DEVICES	S1146
PHOTO SENSITIVE DEVICES	S1149
SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS)	S1150
INFRARED	T1159
LASERS	T1186
DISPLAY TUBES	T1220
PROGRAMMING	U1234
DB AND POWER RATIOS	U1255

TABLE 2

SPECIALTIES FOR WHICH DATA ARE PROVIDED
IN THIS REPORT

304X5	321X2
316X1L	321X2A
316X3	324X0
321XOK	329XOA
321XOL	329XOB
321X1	404X0
321X1G	404X1
321X1E	462X0

PRESENTATION OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. Group Summary (GPSUM) computer printouts are provided in the Appendix portion of this report. They summarize responses to the inventory by AFSC groups. The first page of the Group Summary lists the groups for which data are presented. The remainder of the Group Summary displays the percentage of each group who answered "yes" to each question asked in the EPI.

APPENDIX

PC1 MBRS RESPONDING 'YES' BY DAFSC GROUPS

GR00DA PAGE 114

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TABULATION OF PERCENT MEMBERS RESPONDING 'YES' TO
QUESTIONS BY DAFSC GROUPS

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

GROUP IDENTITY =	SPC151	ALL AIRMEN DAFSC 30455	CONTAINING	233 MEMBERS.
GROUP IDENTITY =	SPC800	ALL AIRMEN DAFSC 31651L	CONTAINING	136 MEMBERS.
GROUP IDENTITY =	SPC801	ALL OS AIRMEN DAFSC 31651L	CONTAINING	179 MEMBERS.
GROUP IDENTITY =	SPC802	ALL AIRMEN DAFSC 31653	CONTAINING	321 MEMBERS.
GROUP IDENTITY =	SPC803	ALL AIRMEN DAFSC 32150K	CONTAINING	55 MEMBERS.
GROUP IDENTITY =	SPC804	ALL AIRMEN DAFSC 32150L	CONTAINING	13 MEMBERS.
GROUP IDENTITY =	SPC805	ALL AIRMEN DAFSC 32151	CONTAINING	115 MEMBERS.
GROUP IDENTITY =	SPC806	ALL AIRMEN DAFSC 321516	CONTAINING	52 MEMBERS.
GROUP IDENTITY =	SPC807	ALL AIRMEN DAFSC 32151E	CONTAINING	26 MEMBERS.

TASK	GROUP	SUMMARY
PERCENT MEMBERS PERFORMING		

DIY-TSK

[illegible]

1	AI-01	DO YOU PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS METERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE VOLTAGE, RESISTANCE, ETC., BY POWERS OF 10.	84	42	50	79	76	69	82	85	73
2	AI-02	DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL ORDERS OR MAINTENANCE MANUALS, IN WHICH IT IS NECESSARY FOR YOU TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN APPLY THE INFORMATION FROM THE PUBLICATION IN A USEFUL WAY ON THE JOB.	45	27	27	30	33	23	32	21	38
3	AI-03	DO YOU REARRANGE AND SOLVE FORMULAS OR EQUATIONS.	41	7	13	37	45	62	23	19	23
4	AI-04	DO YOU CALCULATE THE SQUARE ROOT OF A QUANTITY.	22	4	1	17	11	38	1	0	4
5	AI-05	DO YOU SOLVE FOR UNKNOWN QUANTITIES.	39	10	10	37	35	46	20	19	23
6	AI-06	DO YOU CONVERT NUMBERS TO LOGARITHMS.	9	1	0	8	2	0	3	0	12
7	AI-07	DO YOU USE LOGARITHM TABLES IN ANY TYPE OF CALCULATIONS.	11	1	0	11	4	0	3	0	8
8	AI-08	DO YOU SOLVE QUADRATIC EQUATIONS.	12	1	1	10	5	0	3	0	8
9	AI-09	DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS.	6	1	0	7	2	0	1	2	0
10	AI-10	DO YOU PERFORM CALCULATIONS ON VECTOR QUANTITIES.	17	1	0	14	36	38	1	2	0
11	AI-11	DO YOU WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS SINE, COSINE, OR TANGENT.	14	1	0	14	51	62	9	8	8
12	AI-12	DO YOU DETERMINE AREAS OF PLANE FIGURES.	11	2	0	9	20	8	2	0	8
13	AI-13	DO YOU SOLVE OR USE SIMULTANEOUS EQUATIONS.	12	3	2	10	11	0	3	0	8
14	AI-14	DO YOU SOLVE OR USE PROPORTIONS.	29	4	5	25	36	8	4	2	12
15	AI-01	DO YOU USE THE TERM VOLTAGE OR VOLT (V).	94	71	82	96	93	77	97	98	100
16	AI-02	DO YOU USE THE TERM ELECTROMOTIVE FORCE (EMF).	42	13	14	37	33	31	20	23	27
17	AI-03	DO YOU USE THE TERM OHM.	93	68	80	94	95	77	94	96	96
18	AI-04	DO YOU USE THE TERM ION.	26	2	2	16	20	0	4	4	4
19	AI-05	DO YOU USE THE TERM DYNE.	9	1	3	8	4	0	3	4	4
20	AI-06	DO YOU USE THE TERM AMPERE.	93	56	59	94	87	77	85	90	88
21	AI-07	DO YOU USE THE TERM NEUTRON.	23	3	3	14	16	0	7	6	4
22	AI-08	DO YOU USE THE TERM COULOMB.	21	2	2	18	15	8	9	10	4
23	AI-09	DO YOU USE THE TERM PROTON.	22	3	2	15	16	0	6	6	4
24	AI-01	DO YOU WORK WITH RESISTORS IN YOUR PRESENT JOB.	83	41	42	77	67	77	83	90	82
25	AI-02	DO YOU INSPECT RESISTORS.	91	26	22	73	64	77	81	96	85
26	AI-03	DO YOU CLEAN RESISTORS.	84	15	9	46	45	62	48	60	38
27	AI-04	DO YOU ADJUST RESISTORS.	88	37	37	72	73	77	83	92	85
28	AI-05	DO YOU CHECK OHMIC VALUE OR RESISTORS.	91	31	27	79	71	77	83	96	85
29	AI-06	DO YOU REMOVE OR REPLACE RESISTORS.	90	22	16	75	62	77	78	88	88
30	AI-07	DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTORS ON ANY TASKS YOU PERFORM.	30	5	3	29	22	8	19	17	23
31	AI-08	DO YOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED RESISTOR SYMBOLS OR TAPPED RESISTOR SYMBOLS.	91	24	20	75	67	77	70	81	81
32	AI-09	DO YOU IDENTIFY OR CLASSIFY THE RESISTORS YOU WORK WITH AS CARBON, FIXED WIRE, SLIDE TAP, RHEOSTAT, OR POTENTIOMETER.	89	20	19	74	64	54	67	77	73
33	AI-10	DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC VALUE OR RESISTANCE.	92	18	18	78	69	77	75	88	88

PCT MBRS RESPONDING 'YES' BY DAFSC GROUPS

GRADUA PAGE 136

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DI-TSK

A 34 A3-11 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE TOLERANCE.	80	14	13	73	60	69	66	83	77	SPC SPC SPC SPC SPC SPC SPC
A 35 A3-12 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE FAILURE RATE.	21	4	4	19	9	0	18	27	15	151 800 801 802 803 804 805 806 807
A 36 A3-13 DO YOU MAKE DECISIONS IN WHICH YOU MUST DETERMINE HOW TWO OR MORE BATTERIES MUST BE CONNECTED TOGETHER TO ACHIEVE A SPECIFIC VOLTAGE.	35	6	4	36	15	0	15	17	8	
A 37 A3-14 DO YOU USE OR REFER TO THE SCHEMATIC SYMBOLS WHICH REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SWITCHES	91	30	27	80	76	77	87	94	96	
A 38 A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES RESISTIVE CIRCUITS.	69	11	9	54	36	38	37	42	46	
A 39 A3-16 DO YOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE CIRCUITS.	58	10	8	48	36	31	36	38	46	
A 40 A3-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES RESISTIVE CIRCUITS.	68	9	8	52	33	31	31	33	38	
A 41 A3-18 DO YOU CALCULATE POWER DISSIPATION FOR SERIES RESISTIVE CIRCUITS.	52	7	5	40	22	15	23	21	38	
A 42 A3-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES PARALLEL RESISTIVE CIRCUITS.	64	8	9	51	38	31	32	35	38	
A 43 A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES PARALLEL RESISTIVE CIRCUITS.	55	8	7	48	35	31	30	33	35	
A 44 A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES PARALLEL RESISTIVE CIRCUITS.	63	7	7	48	29	15	29	29	35	
A 45 A3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR SERIES PARALLEL RESISTIVE CIRCUITS.	52	7	6	41	29	15	25	21	35	
A 46 A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES PARALLEL RESISTIVE CIRCUITS.	48	6	4	38	24	15	20	21	27	
A 47 A3-24 DO YOU CALCULATE TOTAL RESISTANCE FOR PARALLEL RESISTIVE CIRCUITS.	65	7	7	50	33	31	31	31	42	
A 48 A3-25 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE CIRCUITS.	55	7	7	46	33	31	30	31	35	
A 49 A3-26 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR PARALLEL RESISTIVE CIRCUITS.	63	6	8	45	29	31	28	27	35	
A 50 A3-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR PARALLEL RESISTIVE CIRCUITS.	51	6	6	41	29	8	24	19	35	
A 51 A3-28 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL RESISTIVE CIRCUITS.	48	6	3	37	24	15	18	19	27	
B 52 B1-01 DO YOU MEASURE RESISTANCE.	92	76	79	88	93	77	96	100	88	
B 53 B1-02 DO YOU REPAIR OHMMETERS.	9	3	3	6	7	8	6	4	15	
B 54 B1-03 DO YOU MEASURE VOLTAGE.	92	74	81	92	95	77	96	100	96	
B 55 B1-04 DO YOU REPAIR VOLTMETERS.	7	3	2	5	5	8	4	4	8	
B 56 B1-05 DO YOU REPAIR AMMETERS.	7	2	2	5	7	8	3	4	4	
B 57 B1-06 DO YOU MEASURE CURRENT.	62	50	49	79	84	62	84	100	77	
B 58 B1-07 DO YOU USE MULTIMETERS.	91	75	83	92	93	77	97	100	96	
B 59 B1-08 DO YOU DIRECTLY USE A QUANTITY OF CHARGE CALLED A COULOMB.	8	3	1	7	0	0	3	2	8	
B 60 B1-09 DO YOU READ SCHEMATICS.	93	55	52	87	93	77	95	98	96	

TASK	GROUP SUMMARY
PERCENT MEMBERS PERFORMING	
1. Identify the problem	100%
2. Generate ideas	100%
3. Evaluate ideas	100%
4. Select a solution	100%
5. Implement the solution	100%
6. Evaluate the results	100%

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	A00	A01	A02	A03	A04	A05	A06	A07	
B 61 B2-01 DO YOU USE OR REFER TO THE TERM EFFECTIVE VOLTAGE (RMS).	76	24	35	71	71	69	66	79	58
B 62 B2-02 DO YOU USE OR REFER TO THE TERM PEAK TO PEAK VOLTAGE.	67	32	45	80	88	77	82	87	73
B 63 B2-03 DO YOU USE OR REFER TO THE TERM AVERAGE VOLTAGE (DC).	78	24	40	64	73	69	75	79	73
B 64 B2-04 DO YOU USE OR REFER TO THE TERM WAVE LENGTH.	60	30	35	55	71	69	70	73	54
B 65 B2-05 DO YOU USE OR REFER TO THE TERM FREQUENCY.	91	60	65	88	84	77	90	94	88
B 66 B2-06 DO YOU USE OR REFER TO THE TERM INSTANTANEOUS VALUE.	36	11	9	30	40	15	20	21	27
B 67 B3-01 DO YOU WORK WITH INDUCTORS OR CIRCUITS CONTAINING INDUCTORS, CHOKE, OR CHOK COILS IN YOUR PRESENT JOB.	63	13	11	38	45	23	48	56	42
B 68 B3-02 DO YOU INSPECT INDUCTORS.	65	6	6	35	35	31	38	44	50
B 69 B3-03 DO YOU CLEAN INDUCTORS.	76	4	4	21	20	23	23	35	15
B 70 B3-04 DO YOU ADJUST INDUCTORS.	82	7	4	29	24	23	26	31	27
B 71 B3-05 DO YOU REMOVE OR REPLACE INDUCTORS.	82	4	4	35	27	38	36	38	38
B 72 B3-06 DO YOU USE OR REFER TO INDUCTANCE.	75	7	5	37	33	38	33	35	35
B 73 B3-07 DO YOU USE OR REFER TO HENRIES.	64	6	4	30	18	31	17	23	19
B 74 B3-08 DO YOU USE OR REFER TO INDUCTIVE REACTANCE.	56	5	4	27	28	23	19	19	23
B 75 B3-09 DO YOU USE OR REFER TO COPPER LOSS IN INDUCTORS.	13	1	1	7	0	0	2	2	4
B 76 B3-10 DO YOU USE OR REFER TO HYSTERESIS LOSS IN INDUCTORS.	19	1	1	11	4	0	3	6	4
B 77 B3-11 DO YOU USE OR REFER TO EDDY CURRENT LOSS IN INDUCTORS.	18	1	1	8	4	0	3	4	4
B 78 B3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTANCE IS PROPORTIONAL TO THE SQUARE OF THE NUMBER OF TURNS OF THE COIL.	18	1	1	6	5	8	2	2	4
B 79 B2-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE CROSS SECTIONAL AREA OF THE CORE.	15	1	0	6	4	8	3	2	8
B 80 B2-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS INVERSELY PROPORTIONAL TO ITS LENGTH.	13	1	1	7	4	8	3	4	8
B 81 B2-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE PERMEABILITY OF THE CORE MATERIAL.	15	1	0	9	7	8	3	2	8
B 82 B2-16 DO YOU CALCULATE INDUCTANCE FOR PARTICULAR INDUCTORS USING FORMULAS.	16	1	1	9	5	0	0	0	0
B 83 B3-17 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTANCE IN SERIES.	21	1	1	12	9	8	3	2	12
B 84 B3-18 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN PARALLEL.	21	1	1	11	9	8	3	2	12
B 85 B3-19 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN SERIES-PARALLEL CIRCUITS.	20	1	1	10	9	8	4	4	12
B 86 B3-20 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LAGS VOLTAGE IN AC INDUCTOR CIRCUITS.	40	3	1	22	20	15	17	17	27
B 87 B3-21 DO YOU CALCULATE INDUCTIVE REACTANCE.	26	1	1	13	11	15	2	0	8
B 88 B3-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTIVE REACTANCE IS DIRECTLY PROPORTIONAL TO FREQUENCY.	33	1	0	17	17	13	15	5	4
B 89 B3-23 DO YOU WORK WITH POWER INDUCTORS.	45	4	3	16	16	23	26	33	27
B 90 B3-24 DO YOU WORK WITH AUDIO FREQUENCY INDUCTORS.	70	2	2	23	11	0	5	4	9
B 91 B3-25 DO YOU WORK WITH RADIO FREQUENCY INDUCTORS.	60	4	3	27	20	23	25	31	27

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	800	801	802	803	808	805	806	807			
C 121 C1-30 DO YOU WORK WITH ROTOR-STATOR (VARIABLE) CAPACITORS	79	10	5	36	49	23	27	19	38			
C 122 C1-31 DO YOU WORK WITH COMPRESSION (TRIMMER) CAPACITORS	80	7	3	31	25	15	22	23	35			
C 123 C1-32 DO YOU WORK WITH ELECTROLYTIC (FIXED) CAPACITORS	92	13	7	62	36	46	69	75	58			
C 124 C1-33 DO YOU WORK WITH PAPER (FIXED) CAPACITORS	88	9	7	51	31	38	47	58	46			
C 125 C1-34 DO YOU WORK WITH MICA (FIXED) CAPACITORS	89	11	7	54	29	31	96	50	50			
C 126 C1-35 DO YOU WORK WITH CERAMIC (FIXED) CAPACITORS	90	11	7	59	36	38	59	69	58			
C 127 C1-36 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF CAPACITORS	13	13	12	12	15	31	25	27	19			
C 128 C2-01 DO YOU WORK WITH TRANSFORMERS IN YOUR PRESENT JOB	79	12	15	48	55	69	63	67	65			
C 129 C2-02 DO YOU INSPECT TRANSFORMERS	86	7	8	39	47	69	66	77	69			
C 130 C2-03 DO YOU CLEAN TRANSFORMERS	79	6	4	25	25	38	37	44	23			
C 131 C2-04 DO YOU ADJUST TRANSFORMERS	48	7	5	21	35	46	36	42	38			
C 132 C2-05 DO YOU TROUBLESHOOT TRANSFORMERS	81	5	7	36	45	77	60	67	62			
C 133 C2-06 DO YOU REMOVE OR REPLACE COMPLETE TRANSFORMERS	86	7	8	43	53	69	63	71	62			
C 134 C2-07 DO YOU REMOVE OR REPLACE TRANSFORMER PARTS, SUCH AS THE PRIMARY WINDING	11	0	1	4	4	0	6	6	8			
C 135 C2-08 DO YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTION AND MUTUAL INDUCTANCE (M)	12	1	1	6	2	0	2	2	0			
C 136 C2-09 DO YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, M	9	1	0	6	2	8	3	2	4			
C 137 C2-10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING WHEN WORKING WITH TRANSFORMERS	18	3	0	9	5	8	3	6	4			
C 138 C2-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING CURRENT OR VOLTAGE RATIOS	20	1	1	11	7	8	3	4	0			
C 139 C2-12 DO YOU REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH TRANSFORMERS	21	1	0	6	5	0	2	2	4			
C 140 C2-13 DO YOU CALCULATE IMPEDANCE INTERACTIONS FOR TRANSFORMERS	13	1	0	6	4	4	0	1	4			
C 141 C2-14 DO YOU WORK WITH AUTOTRANSFORMERS	53	2	1	11	27	69	26	33	38			
C 142 C2-15 DO YOU WORK WITH POWER TRANSFORMERS	88	5	12	45	55	77	60	65	62			
C 143 C2-16 DO YOU WORK WITH AUDIO TRANSFORMERS	84	1	1	28	16	0	11	2	27			
C 144 C2-17 DO YOU WORK WITH RADIO FREQUENCY TRANSFORMERS	57	1	2	26	29	15	30	27	42			
C 145 C2-18 DO YOU WORK WITH DON'T REMEMBER WHAT TYPE OF TRANSFORMERS	14	5	5	6	13	8	23	27	19			
C 146 C2-19 DO YOU CHECK TRANSFORMERS FOR OPEN WINDINGS BY MEASURING RESISTANCE	88	6	6	37	47	77	60	69	62			
C 147 C2-20 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING RESISTANCE	81	5	6	33	40	77	58	67	65			
C 148 C2-21 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING OUTPUT VOLTAGES	73	7	4	32	40	46	59	67	62			
C 149 C2-22 DO YOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN TURNS RATIO	40	4	2	14	7	8	17	17	15			
C 150 C2-23 DO YOU MEASURE OUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN TURNS RATIO	55	5	3	23	16	8	27	29	27			
C 151 C2-24 DO YOU REFER TO BASIC TRANSFORMER SCHEMATIC SYMBOLS FOR TRANSFORMERS	91	6	11	48	53	77	69	81	73			

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

[illegible]

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

											DY-15M											SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
																						151	800	801	802	803	804	805	806	807
D 204 DI-20 DO YOU USE OR REFER TO TANK CIRCUITS WHEN WORKING WITH RCL CIRCUITS											65	4	2	26	11	23	10	19	15											
D 205 DI-21 DO YOU DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS USING FORMULAS											9	1	0	7	13	15	0	0	0											
D 206 DI-22 DO YOU DRAW VOLTAGE, CURRENT, OR IMPEDANCE VECTOR DIAGRAMS FOR CIRCUITS											14	0	1	7	7	8	2	0	0											
D 207 DI-23 DO YOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE CIRCUITS											21	0	1	11	7	15	4	2	8											
D 208 DI-24 DO YOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS											10	0	0	6	4	0	0	0	0											
D 209 DI-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR SERIES RCL CIRCUITS											18	1	1	11	5	15	1	0	0											
D 210 DI-26 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL CIRCUITS											10	1	1	4	4	0	1	0	0											
D 211 DI-27 DO YOU CALCULATE APPARENT POWER (PA) FOR SERIES RCL CIRCUITS											12	1	1	6	5	0	1	0	0											
D 212 DI-28 DO YOU CALCULATE TRUE POWER (PT) FOR SERIES RCL CIRCUITS											12	1	1	8	5	0	1	0	0											
D 213 DI-29 DO YOU CALCULATE POWER FACTORS (PF) FOR SERIES RCL CIRCUITS											13	1	1	7	5	0	1	0	0											
D 214 DI-30 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RCL CIRCUITS											10	1	1	11	7	15	3	2	4											
D 215 DI-31 DO YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL CIRCUITS											9	1	0	4	4	0	1	0	0											
D 216 DI-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING THE ASSUMED VOLTAGE METHOD											12	1	0	7	2	0	1	0	0											
D 217 DI-33 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING OHM'S LAW											21	1	1	11	7	15	2	0	4											
D 218 DI-34 DO YOU CHECK CAPACITORS USING OHMMETERS											72	4	2	30	16	38	26	19	42											
D 219 DI-35 DO YOU CHECK CAPACITORS USING SUBSTITUTION											69	4	2	22	7	23	14	10	23											
D 220 DI-36 DO YOU CHECK INDUCTORS USING OHMMETERS											71	4	2	26	18	31	21	17	38											
D 221 DI-37 DO YOU CHECK INDUCTORS USING SUBSTITUTION											56	3	1	16	9	15	12	10	19											
D 222 DI-38 DO YOU USE OR REFER TO THE GENERAL RULE THAT $\text{TIME} = 0$, $\text{PF} = 1$, AND $\text{PA} = \text{PT}$ FOR RESONANT CIRCUITS											4	0	0	3	4	0	0	0	0											
D 223 DI-39 DO YOU CALCULATE RESONANT FREQUENCIES FOR RCL CIRCUITS											22	0	1	11	7	0	3	4	4											
D 224 DI-40 DO YOU USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT FREQUENCY FOR SERIES RCL CIRCUITS											32	1	1	15	7	0	3	4	0											
D 225 DI-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT TIME CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT FREQUENCY FOR PARALLEL RCL CIRCUITS											27	1	1	14	7	0	2	4	0											
D 226 DI-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK CURRENT VALUE											26	1	1	11	9	15	5	0	0											
D 227 DI-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO Q											31	0	1	13	5	0	1	2	0											
D 228 DI-44 DO YOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE, CAPACITANCE, OR INDUCTANCE WILL AFFECT CURRENT OR PHASE ANGLES FOR RCL CIRCUITS											21	1	0	9	4	0	2	4	0											

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	DI-1SK	SPC 151	SPC A00	SPC A01	SPC A02	SPC A03	SPC A04	SPC A05	SPC A06	SPC A07
E 291 E2-19 DO YOU MAKE HARDWARE CONNECTIONS	85	26	23	76	82	69	82	85	85	85
E 292 E2-20 DO YOU MAKE PRINTED CIRCUIT BOARD CONNECTIONS	88	15	12	67	42	38	59	50	62	62
E 293 E2-21 DO YOU SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS OR CAPACITORS ON PRINTED CIRCUIT BOARDS	88	15	8	68	38	38	53	44	62	62
E 294 E2-22 DO YOU SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE DIODES OR TRANSISTORS ON PRINTED CIRCUIT BOARDS	88	14	6	66	31	38	39	21	58	58
E 295 E3-01 DO YOU WORK WITH RELAYS ON YOUR PRESENT JOB	76	18	16	57	85	77	83	90	92	92
E 296 E3-02 DO YOU ADJUST RELAYS	43	11	7	14	36	8	45	58	62	62
E 297 E3-03 DO YOU CLEAN RELAYS	66	7	6	30	40	23	49	56	65	65
E 298 E3-04 DO YOU INSPECT RELAYS	73	16	7	42	67	54	67	79	77	77
E 299 E3-05 DO YOU REMOVE OR REPLACE COMPLETE RELAYS	70	18	8	52	89	69	77	87	77	77
E 300 E3-06 DO YOU REMOVE OR REPLACE PARTS OR RELAYS	24	4	2	8	5	0	20	17	46	46
E 301 E3-07 DO YOU TROUBLESHOOT RELAYS	71	14	7	40	71	77	76	17	85	85
E 302 E3-08 DO YOU STRAIGHTEN RELAY CONTACTS	52	11	6	24	60	38	48	54	69	69
E 303 E3-09 DO YOU PERFORM TASKS ON RELAY CONTACTS	60	7	5	21	20	23	38	44	65	65
E 304 E3-10 DO YOU PERFORM TASKS ON RELAY COILS	17	2	0	4	5	0	10	6	27	27
E 305 E3-11 DO YOU PERFORM TASKS ON RELAY ARMATURES	20	3	0	6	9	0	12	10	31	31
E 306 E3-12 DO YOU PERFORM TASKS ON RELAY SPRINGS	26	3	0	9	13	0	20	15	50	50
E 307 E3-13 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW (SPDT), NORMALLY OPEN (NO) SCHEMATIC SYMBOLS FOR RELAYS	34	3	3	11	5	0	22	15	62	62
E 308 E3-14 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY CLOSED (NC) SCHEMATIC SYMBOLS FOR RELAYS	62	13	10	50	58	69	69	77	69	69
E 309 E3-15 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY CLOSED (NC) SCHEMATIC SYMBOLS FOR RELAYS	61	13	9	50	56	69	67	75	65	65
E 310 E3-16 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW (SPDT) SCHEMATIC SYMBOLS FOR RELAYS	60	13	8	48	55	69	66	77	65	65
E 311 E3-17 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (DPDT) SCHEMATIC SYMBOLS FOR RELAYS	60	12	9	48	53	69	67	77	69	69
E 312 E3-18 DO YOU USE OR REFER TO OTHER RELAY SYMBOLS SCHEMATIC SYMBOLS FOR RELAYS	55	11	7	42	60	69	66	65	77	77
E 313 E3-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY MEASURING RESISTANCE	70	9	5	40	47	54	60	60	73	73
F 314 F1-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH MICROPHONES	76	3	2	21	4	23	10	13	4	4
F 315 F1-02 DO YOU INSPECT MICROPHONES	73	1	0	10	2	8	2	2	4	4
F 316 F1-03 DO YOU CLEAN MICROPHONES	64	0	1	8	0	8	0	0	0	0
F 317 F1-04 DO YOU OPERATE MICROPHONES	71	2	2	22	4	23	10	15	4	4
F 318 F1-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT PARTS OR MICROPHONES	56	0	1	13	2	15	3	6	0	0
F 319 F1-06 DO YOU TROUBLESHOOT DOWN TO MICROPHONE PARTS	46	0	0	5	0	0	1	0	0	0
F 320 F1-07 DO YOU REMOVE OR REPLACE COMPLETE MICROPHONES	71	1	1	12	2	8	4	6	4	4
F 321 F1-08 DO YOU REMOVE OR REPLACE MICROPHONE PARTS	42	0	0	5	2	0	1	0	0	0
F 322 F1-09 DO YOU PERFORM TASKS ON CARBON MICROPHONES	50	0	1	8	0	0	1	2	0	0
F 323 F1-10 DO YOU PERFORM TASKS ON CAPACITOR MICROPHONES	28	0	1	3	0	0	0	0	0	0
F 324 F1-11 DO YOU PERFORM TASKS ON CRYSTAL MICROPHONES	29	0	1	4	0	0	1	0	4	4
F 325 F1-12 DO YOU PERFORM TASKS ON DYNAMIC MICROPHONES	61	1	1	7	2	0	2	4	0	0
F 326 F1-13 DO YOU PERFORM TASKS ON VELOCITY RIBBON MICROPHONES	21	0	1	2	0	0	0	0	0	0

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

		DY-15K															
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		151	800	801	802	803	804	805	806	807							
F 327 F2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH SPEAKERS		76	0	0	21	0	0	0	3	2	0						
F 328 F2-02 DO YOU INSPECT SPEAKERS		73	0	0	15	0	0	0	0	0	0						
F 329 F2-03 DO YOU CLEAN SPEAKERS		61	0	0	10	0	0	0	0	0	0						
F 330 F2-04 DO YOU OPERATE SPEAKERS		72	0	0	19	0	0	0	2	2	0						
F 331 F2-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS, BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT PARTS OF SPEAKERS		67	0	0	15	0	0	0	0	0	0						
F 332 F2-06 DO YOU TROUBLESHOOT DOWN TO SPEAKER PARTS		29	0	0	5	0	0	0	0	0	0						
F 333 F2-07 DO YOU REMOVE OR REPLACE COMPLETE SPEAKERS		73	0	0	16	0	0	0	0	0	0						
F 334 F2-08 DO YOU REMOVE OR REPLACE SPEAKER PARTS		18	0	0	3	0	0	0	0	0	0						
F 335 F2-09 DO YOU PERFORM ANY TASKS ON SPEAKER CONES		18	0	0	2	0	0	0	0	0	0						
F 336 F2-10 DO YOU PERFORM ANY TASKS ON SPEAKER SPIDERS		6	0	0	1	0	0	0	0	0	0						
F 337 F2-11 DO YOU PERFORM ANY TASKS ON SPEAKER FIELD COILS		9	0	0	2	0	0	0	0	0	0						
F 338 F2-12 DO YOU PERFORM ANY TASKS ON SPEAKER VOICE COILS		14	0	0	2	0	0	0	0	0	0						
F 339 F2-13 DO YOU PERFORM ANY TASKS ON SPEAKER PERMANENT MAGNETS		13	0	0	2	0	0	0	0	0	0						
F 340 F2-14 DO YOU PERFORM ANY TASKS ON SPEAKER ELECTROMAGNETS		12	0	0	2	0	0	0	0	0	0						
F 341 F2-15 DO YOU PERFORM ANY TASKS ON SPEAKER SOFT IRON CORES		9	0	0	2	0	0	0	0	0	0						
F 342 F3-01 DO YOU USE OSCILLOSCOPES IN YOUR PRESENT JOB		91	41	55	83	85	77	83	88	85	77						
F 343 F3-02 DO YOU USE OSCILLOSCOPES TO PERFORM OPERATIONAL CHECKS		90	30	38	81	87	77	80	85	77	77						
F 344 F3-03 DO YOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR ADJUSTMENTS		88	33	43	75	89	77	84	94	77	77						
F 345 F3-04 DO YOU USE OSCILLOSCOPES TO TROUBLESHOOT ELECTRONIC CIRCUITS		90	25	35	69	85	77	81	85	81	81						
F 346 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY		80	34	45	75	76	69	77	79	77	77						
F 347 F3-06 DO YOU USE OSCILLOSCOPES TO MEASURE TIME		79	32	41	64	84	77	77	90	77	77						
F 348 F3-07 DO YOU USE OSCILLOSCOPES TO OBSERVE LISAIOUS PATTERNS		37	6	9	20	40	38	27	33	19	33						
F 349 F3-08 DO YOU USE OSCILLOSCOPES TO OBSERVE SIGNALS WHILE UTILIZING ATTENUATOR PROBES		87	16	31	63	75	62	64	71	54	54						
F 350 F3-09 DO YOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME MEASUREMENTS USING DELAY TIME MULTIPLIERS		69	24	20	45	75	54	39	50	38	38						
F 351 F3-10 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE		82	30	44	75	82	77	76	79	73	73						
F 352 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE OR OBSERVE SIGNALS AFTER FIRST ADJUSTING THE GAIN AND DC BAL. CONTROLS		77	15	20	66	65	69	62	67	58	58						
F 353 F3-12 DO YOU USE OSCILLOSCOPES TO MEASURE DC VOLTAGE		88	26	37	79	91	77	71	75	62	62						
F 354 G1-01 DO YOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT JOB		88	8	7	60	40	23	48	44	50	50						
G 355 G1-02 DO YOU INSPECT DIODES		88	7	6	52	40	15	42	42	46	46						
G 356 G1-03 DO YOU REMOVE OR REPLACE DIODES		87	7	4	55	45	15	44	44	42	42						
G 357 G1-04 DO YOU CHECK DIODES USING AN INSTRUMENT		89	7	4	54	44	15	44	44	46	46						
G 358 G1-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH DIODES		8	0	0	7	2	0	0	0	0	0						
G 359 G1-06 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, TOGETHER WITH VALUES OF FORWARD AND REVERSE BIAS VOLTAGE, TO COMPUTE FORWARD OR REVERSE LIAS RESISTANCE		21	1	0	8	2	0	1	0	4	4						
G 360 G1-07 DO YOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR DIODES		31	2	1	11	7	0	10	12	12	12						

PCT MBRS RESPONDING 'YES' BY DAFSC GROUPS

6P80DA PAGE 147

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

		DY-15K													
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		151	A00	A01	A02	A03	A04	A05	A06	A07					
6 361	61-08 DO YOU USE OR REFER TO THE GENERAL RULE THAT TEMPERATURE CAN AFFECT THE OPERATION OF DIODES	71	5	1	39	11	15	25	23	23					
6 362	61-09 DO YOU IDENTIFY SEMICONDUCTOR DIODES AS OPPOSED TO OTHER ELECTRONIC COMPONENTS, SUCH AS RESISTORS, BASED ON THEIR PHYSICAL APPEARANCE	83	5	3	53	40	23	40	38	42					
6 363	61-10 DO YOU REFER TO OR DO YOU DETERMINE THE GENERAL EFFECTS OF DOPING ON CURRENT FLOW	21	1	1	9	7	8	3	2	4					
6 364	61-11 DO YOU USE OR REFER TO MEASUREMENTS OF FORWARD BIAS RESISTANCE	78	5	2	37	24	8	21	17	27					
6 365	61-12 DO YOU USE OR REFER TO DIODE COLOR CODING	54	6	2	26	13	8	20	13	35					
6 366	61-13 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS	7	0	0	2	2	0	0	0	0					
6 367	61-14 DO YOU USE OR REFER TO CENTRIPETAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS	6	0	0	2	2	0	0	0	0					
6 368	61-15 DO YOU USE OR REFER TO DIODE NUMBERING SYSTEM, SUCH AS 1M 538	81	4	2	47	31	23	27	29	31					
6 369	61-16 DO YOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON MOVING IN ORBIT	8	1	0	3	4	0	0	0	0					
6 370	61-17 DO YOU USE OR REFER TO POTENTIAL ENERGY OF AN ELECTRON MOVING IN ORBIT	9	0	0	3	4	0	0	0	0					
6 371	61-18 DO YOU USE OR REFER TO MEASUREMENTS OF REVERSE BIAS RESISTANCE	79	4	2	36	25	8	17	13	23					
6 372	61-19 DO YOU USE OR REFER TO NUMBER OF ELECTRONS IN A PARTICULAR SHELL OR ORBIT	12	0	0	3	2	0	0	0	0					
6 373	61-20 DO YOU USE OR REFER TO PERMISSIBLE ENERGY LEVELS OF AN ORBITING ELECTRON	6	0	0	3	2	0	0	0	0					
6 374	61-21 DO YOU USE OR REFER TO FORBIDDEN ENERGY LEVELS OF AN ORBITING ELECTRON	6	0	0	3	2	0	0	0	0					
6 375	61-22 DO YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN THE OUTERMOST SHELL)	13	1	0	4	2	0	0	0	0					
6 376	61-23 DO YOU USE OR REFER TO ATOMIC NUMBER (TOTAL NUMBER OF ELECTRONS IN ATOM)	11	0	0	3	2	0	0	0	0					
6 377	61-24 DO YOU USE OR REFER TO SYMBOLS ON THE DIODE WHICH INDICATE THE CATHODE END	85	7	4	55	33	15	33	37	31					
6 378	61-25 DO YOU NEED TO KNOW WHICH MATERIALS ARE USED IN THE CONSTRUCTION OF DIODES SUCH AS GERMANIUM OR SILICON	48	4	0	23	11	8	7	6	15					
6 379	61-26 DO YOU NEED TO KNOW THAT SEMICONDUCTORS HAVE NEGATIVE TEMPERATURE COEFFICIENTS OF RESISTANCE (AS TEMPERATURE INCREASES RESISTANCE DECREASES)	46	4	1	26	11	8	9	6	8					
6 380	61-27 DO YOU USE OR REFER TO PN JUNCTION DIODE CHARACTERISTIC CURVES, SUCH AS VOLTAGE - CURRENT	24	0	1	19	4	0	1	0	0					
6 381	61-28 DO YOU DETERMINE WHETHER PN JUNCTION DIODES ARE FORWARD BIASED OR REVERSE BIASED WHEN YOU READ OR INTERPRET CIRCUIT DIAGRAMS	71	2	2	42	29	8	17	13	23					
6 382	61-29 DO YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR MATERIALS	13	0	0	3	4	8	2	0	4					

PCI MBRS RESPONDING 'YES' BY DAFSC GROUPS

GP800A PAGE 148

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	800	801	802	803	804	805	806	807
6 383 61-30 DO YOU USE OR REFER TO FORBIDDEN BAND IN SEMICONDUCTOR MATERIALS	8	0	0	3	4	0	0	0	0
6 384 61-31 DO YOU USE OR REFER TO CONDUCTION BAND IN SEMICONDUCTOR MATERIALS	10	0	0	3	5	0	1	0	4
6 385 61-32 DO YOU USE OR REFER TO COVALENT BONDING IN SEMICONDUCTOR MATERIALS	12	0	0	3	4	0	0	0	0
6 386 61-33 DO YOU USE OR REFER TO ELECTRON-HOLE PAIR CREATED IN SEMICONDUCTORS	13	0	0	6	5	0	0	0	0
6 387 61-34 DO YOU USE OR REFER TO ELECTRON FLOW OR HOLE FLOW IN SEMICONDUCTORS	21	0	0	13	5	0	2	4	0
6 388 61-35 DO YOU USE OR REFER TO DONOR IMPURITY IN SEMICONDUCTORS	14	1	0	7	4	0	0	0	0
6 389 61-36 DO YOU USE OR REFER TO ACCEPTOR IMPURITY IN SEMICONDUCTORS	14	1	0	7	5	0	0	0	0
6 390 61-37 DO YOU USE OR REFER TO P-TYPE SEMICONDUCTOR MATERIAL	45	1	0	20	9	0	3	0	0
6 391 61-38 DO YOU USE OR REFER TO N-TYPE SEMICONDUCTOR MATERIAL	46	1	0	21	11	0	3	0	0
6 392 61-39 DO YOU USE OR REFER TO MAJORITY CARRIERS IN SEMICONDUCTORS	18	1	0	7	4	0	0	0	0
6 393 61-40 DO YOU USE OR REFER TO MINORITY CARRIERS IN SEMICONDUCTORS	17	1	0	7	4	0	0	0	0
6 394 61-41 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN SEMICONDUCTORS	13	1	0	6	2	0	0	0	0
6 395 61-42 DO YOU USE OR REFER TO DEPLETION REGION IN SEMICONDUCTORS	20	1	0	11	5	0	0	0	0
6 396 61-43 DO YOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER WIDTH AND DIFFERENCE OF POTENTIAL	15	0	0	7	7	0	0	0	0
6 397 61-44 DO YOU USE OR REFER TO THE 10:1 BACK TO FRONT RESISTANCE RATIO FOR DIODES	77	1	2	26	20	0	17	21	15
6 398 61-45 DO YOU USE OR REFER TO BARRIER HEIGHT IN SEMICONDUCTORS	10	0	0	2	4	0	0	0	0
6 399 61-46 DO YOU USE OR REFER TO DIODE SUBSTITUTION INFORMATION	75	2	1	32	18	0	9	6	15
6 400 61-47 DO YOU USE OR REFER TO MAXIMUM AVERAGE FORWARD CURRENT DIODE RATINGS	42	1	1	27	11	0	3	2	8
6 401 61-48 DO YOU USE OR REFER TO PEAK RECURRENT FORWARD CURRENT DIODE RATINGS	35	0	1	20	9	0	1	0	4
6 402 61-49 DO YOU USE OR REFER TO MAXIMUM SURGE CURRENT DIODE RATINGS	38	0	1	25	9	0	2	2	4
6 403 61-50 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE DIODE RATINGS	54	1	1	29	11	0	3	0	12
6 404 62-01 DO YOU WORK WITH TRANSISTORS IN YOUR PRESENT JOB.	91	4	10	63	35	15	36	25	46
6 405 62-02 DO YOU INSPECT TRANSISTORS	90	4	7	55	31	15	30	21	46
6 406 62-03 DO YOU REMOVE OR REPLACE TRANSISTORS	89	4	4	58	27	15	25	10	38
6 407 62-04 DO YOU CHECK TRANSISTORS USING AN INSTRUMENT	90	4	3	56	24	15	25	10	35
6 408 62-05 DO YOU USE OR REFER TO EMITTER - BASE (EB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS	90	2	2	52	20	0	16	2	19
6 409 62-06 DO YOU USE OR REFER TO COLLECTOR - BASE (CB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS	89	2	2	50	20	0	16	2	19

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-15K

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	800	801	802	803	804	805	806	807
6 410 62-07 DO YOU USE OR REFER TO EMITTER - COLLECTOR (EC1)	88	2	2	51	18	8	16	2	19
6 411 62-08 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE	34	1	1	21	9	0	7	0	12
6 412 62-09 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE	33	1	1	21	9	0	7	0	12
6 413 62-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE	64	1	1	35	13	8	10	2	12
6 414 62-11 DO YOU USE OR REFER TO LEAKAGE CURRENT (IC80) IN A	45	0	0	25	7	0	5	0	8
6 415 62-12 DO YOU USE OR REFER TO TRANSISTOR SCHEMATIC SYMBOLS	91	4	7	61	35	15	30	17	42
6 416 62-13 DO YOU USE OR REFER TO TRANSISTOR NOTATION SUCH AS	92	3	7	61	33	15	27	12	36
6 417 62-14 DO YOU USE OR REFER TO TRANSISTOR SUBSTITUTION	84	1	1	46	16	8	10	4	19
6 418 62-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE	43	0	1	26	9	8	1	0	0
6 419 62-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF EMITTER	57	1	2	40	11	0	7	2	15
6 420 62-17 DO YOU USE THE GENERAL RULE THAT LEAKAGE CURRENT	42	0	1	20	5	0	3	0	4
6 421 62-18 DO YOU USE OR REFER TO TRANSISTOR CHARACTERISTIC	29	1	1	26	5	0	2	0	4
6 422 62-19 DO YOU USE OR REFER TO BETA TRANSISTOR GAINS	34	0	0	22	7	0	1	0	4
6 423 62-20 DO YOU USE OR REFER TO ALPHA TRANSISTOR GAINS	26	0	0	13	7	0	1	0	4
6 424 62-21 DO YOU USE OR REFER TO GAMMA TRANSISTOR GAINS	25	0	0	11	7	0	1	0	4
6 425 62-22 DO YOU CALCULATE BETA TRANSISTOR GAINS	14	0	0	11	4	0	0	0	0
6 426 62-23 DO YOU CALCULATE ALPHA TRANSISTOR GAINS	12	0	0	7	4	0	0	0	0
6 427 62-24 DO YOU CALCULATE GAMMA TRANSISTOR GAINS	9	0	0	5	4	0	0	0	0
6 428 63-01 DO YOU WORK WITH TRANSISTOR AMPLIFIERS IN YOUR	86	1	2	45	22	15	20	6	38
6 429 63-02 DO YOU INSPECT TRANSISTOR AMPLIFIERS	87	1	1	39	16	8	14	4	31
6 430 63-03 DO YOU ALIGN OR ADJUST TRANSISTOR AMPLIFIERS	81	1	1	32	11	15	13	2	31
6 431 63-04 DO YOU TROUBLESHOOT TO THE AMPLIFIER CIRCUIT LEVEL	86	1	1	38	15	8	14	2	27
6 432 63-05 DO YOU TROUBLESHOOT TO AMPLIFIER COMPONENTS	86	1	1	36	11	8	10	2	19
6 433 63-06 DO YOU REMOVE OR REPLACE THE COMPLETE AMPLIFIER	74	1	2	37	22	15	16	2	38
6 434 63-07 DO YOU REMOVE OR REPLACE AMPLIFIER COMPONENTS	84	0	0	34	7	8	10	2	23
6 435 63-08 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN	46	1	0	22	5	0	3	0	0
6 436 63-09 DO YOU USE OR REFER TO (COMMON EMITTER) THE	30	1	0	10	5	0	1	0	0

CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN
COLLECTOR CURRENT WHICH RESULTS FROM A SPECIFIC CHANGE IN
BASE CURRENT

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-15K

6 437	63-10 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN BASE CURRENT	49	1	0	21	7	0	3	0	0
6 438	63-11 DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A SPECIFIC CHANGE IN BASE CURRENT	27	1	0	10	2	0	0	0	0
6 439	63-12 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL	47	1	0	21	7	0	3	0	4
6 440	63-13 DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN BASE CURRENT WHICH RESULTS FROM A SPECIFIC INPUT SIGNAL	29	0	0	12	4	0	0	0	0
6 441	63-14 DO YOU USE THE LOAD-LINE METHOD OF ANALYSIS IN YOUR CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A LOAD-LINE ON A TRANSISTOR CHARACTERISTIC CURVE)	12	0	0	4	4	0	0	0	0
6 442	63-15 DO YOU USE OR REFER TO THE OPERATING POINT Q (QUIESCENT POINT) FOR A TRANSISTOR	25	0	0	13	5	0	1	0	0
6 443	63-16 DO YOU CALCULATE THE SPECIFIC QUIESCENT POINT FOR A PARTICULAR TRANSISTOR	14	0	0	3	4	0	1	0	0
6 444	63-17 DO YOU MEASURE VOLTAGE GAIN USED IN THE COMMON EMITTER CONFIGURATION	62	1	0	31	15	8	8	0	15
6 445	63-18 DO YOU MEASURE CURRENT GAIN USED IN THE COMMON EMITTER CONFIGURATION	45	0	0	24	15	0	4	0	8
6 446	63-19 DO YOU MEASURE POWER GAIN USED IN THE COMMON EMITTER CONFIGURATION	40	0	0	21	15	0	5	0	8
6 447	63-20 DO YOU CALCULATE THE VOLTAGE GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE-EMITTER VOLTAGE INTO THE CHANGE THE BASE COLLECTOR VOLTAGE TO DETERMINE THE VOLTAGE GAIN	18	0	0	8	4	0	1	0	0
6 448	63-21 DO YOU CALCULATE THE CURRENT GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE CURRENT INTO THE CHANGE IN COLLECTOR CURRENT TO DETERMINE THE CURRENT GAIN	16	0	0	9	4	0	1	0	0
6 449	63-22 DO YOU CALCULATE THE POWER GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA THAT IS, DO YOU MULTIPLY THE CURRENT GAIN TIMES THE VOLTAGE GAIN TO DETERMINE THE POWER GAIN	13	0	0	6	2	0	1	0	0
6 450	63-23 DO YOU NEED TO KNOW THAT MORE COLLECTOR CURRENT IS GENERATED WITH LESS COLLECTOR VOLTAGE AS TEMPERATURE INCREASES (THIS AFFECTS THE STATIC OPERATING POINT EQ OF THE TRANSISTOR)	23	0	0	7	2	0	0	0	8
6 451	63-24 DO YOU COMPUTE THE STATIC OPERATING POINT EQ OF A TRANSISTOR AT DIFFERENT TEMPERATURES	11	0	0	3	4	0	1	0	0
6 452	63-25 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH EMITTER (SWAMPING) RESISTOR STABILIZATION	51	0	0	17	4	0	3	0	8
6 453	63-26 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH SELF-914S STABILIZATION	50	0	1	17	5	0	4	0	8

PCI HARS RESPONDING 'YES' BY DAESC GROUPS

GP800A PAGE 151

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-15K

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	A00	A01	A02	A03	A04	A05	A06	A07
6 454 63-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH THERMISTOR STABILIZATION	52	0	0	15	5	0	4	0	4
6 455 63-28 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH FORWARD BIAS DIODE STABILIZATION	52	0	1	17	5	0	8	0	15
6 456 63-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH REVERSE BIAS DIODE STABILIZATION	51	0	1	17	7	0	8	0	15
6 457 63-30 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH DOUBLE DIODE STABILIZATION	41	0	1	12	7	0	5	0	8
6 458 63-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM EMITTER (SWAMPING) RESISTOR STABILIZATION	52	0	0	16	5	0	5	0	15
6 459 63-32 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM SELF-BIAS STABILIZATION	52	0	1	17	5	0	5	0	12
6 460 63-33 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THERMISTOR STABILIZATION	52	0	0	13	7	0	6	0	12
6 461 63-34 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM FORWARD BIAS DIODE STABILIZATION	52	0	1	16	5	0	7	0	15
6 462 63-35 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM REVERSE BIAS DIODE STABILIZATION	51	0	1	16	7	0	7	0	15
6 463 63-36 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM DOUBLE DIODE STABILIZATION	41	0	1	14	5	0	6	0	12
6 464 63-37 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR CIRCUITS	56	0	1	26	11	0	6	0	12
6 465 63-38 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF AMPLITUDE DISTORTION	68	0	0	25	9	0	7	0	12
6 466 63-39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS	61	0	0	25	9	0	8	0	12
6 467 63-40 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR CIRCUITS	49	0	0	19	7	0	7	0	8
6 468 63-41 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF PHASE DISTORTION	48	0	0	17	5	0	5	0	4
6 469 63-42 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF FREQUENCY DISTORTION	59	0	0	21	7	0	7	0	12
6 470 63-43 DO YOU NEED TO KNOW THE DEGENERATIVE EFFECTS ON THE CIRCUIT CAUSED BY CHANGING EMITTER RESISTANCE FOR TRANSISTOR AMPLIFIERS IN THE COMMON COLLECTOR CONFIGURATION	37	0	0	13	2	0	1	0	0
6 471 63-44 DO YOU DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	47	0	1	17	5	0	4	0	12
6 472 63-45 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS	38	0	1	7	5	0	4	0	4
6 473 63-46 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	76	1	2	31	13	0	9	0	15
6 474 63-47 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRY CIRCUITS	58	0	1	17	9	0	3	0	4
6 475 63-48 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS	52	0	1	15	5	0	4	0	8

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DT-15K

	DT-15K	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
6 476 63-49 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED		67	0	1	23	9	8	9	0	9
AMPLIFIERS										
M 477 M1-01 DO YOU USE OR REFER TO VARACTORS		49	2	1	14	15	0	3	0	12
M 478 M1-02 DO YOU USE OR REFER TO TUNNEL DIODES		36	1	2	23	16	0	1	0	0
M 479 M1-03 DO YOU USE OR REFER TO FIELD EFFECT TRANSISTORS (FET)		60	3	7	40	27	15	7	9	12
M 480 M1-04 DO YOU USE OR REFER TO UNIJUNCTION TRANSISTORS		58	3	7	26	13	8	7	4	8
M 481 M1-05 DO YOU USE OR REFER TO ZENER DIODES		92	13	17	62	40	23	30	19	38
M 482 M1-06 DO YOU USE OR REFER TO INTEGRATED CIRCUITS		88	18	26	64	55	15	30	17	31
M 483 M2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH POWER SUPPLIES		88	41	40	76	85	77	79	90	73
M 484 M2-02 DO YOU INSPECT POWER SUPPLIES		87	30	26	57	69	77	71	85	73
M 485 M2-03 DO YOU CLEAN POWER SUPPLIES		84	26	18	42	51	77	50	62	38
M 486 M2-04 DO YOU ALIGN OR ADJUST POWER SUPPLIES		85	24	20	60	73	73	77	90	58
M 487 M2-05 DO YOU TROUBLESHOOT TO POWER SUPPLY CIRCUIT LEVEL		87	14	13	50	65	66	68	77	69
M 488 M2-06 DO YOU TROUBLESHOOT TO POWER SUPPLY COMPONENTS		88	15	8	42	47	69	63	77	58
M 489 M2-07 DO YOU REMOVE OR REPLACE COMPLETE POWER SUPPLIES		77	23	18	61	85	77	80	90	73
M 490 M2-08 DO YOU REMOVE OR REPLACE POWER SUPPLY COMPONENTS		86	13	7	42	44	77	55	71	46
M 491 M2-09 DO YOU WORK WITH HALF-WAVE RECTIFIERS		77	8	7	38	33	23	45	56	38
M 492 M2-10 DO YOU WORK WITH FULL-WAVE RECTIFIERS OTHER THAN		81	7	5	40	35	31	48	58	42
BRIDGE RECTIFIERS										
M 493 M2-11 DO YOU WORK WITH BRIDGE RECTIFIERS		87	12	6	45	40	31	49	56	55
M 494 M2-12 DO YOU WORK WITH THREE-PHASE RECTIFIERS		28	7	2	14	25	31	40	46	35
M 495 M2-13 DO YOU USE OR REFER TO INPUT VOLTAGE		87	24	16	51	49	38	65	73	77
M 496 M2-14 DO YOU USE OR REFER TO INPUT FREQUENCY		62	21	12	39	38	23	37	42	35
M 497 M2-15 DO YOU USE OR REFER TO PEAK OUTPUT VOLTAGE		76	13	12	46	49	31	57	63	58
M 498 M2-16 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE		77	10	9	41	51	31	60	69	65
M 499 M2-17 DO YOU USE OR REFER TO RIPPLE AMPLITUDE		73	6	3	34	55	23	56	71	38
M 500 M2-18 DO YOU USE OR REFER TO RIPPLE FREQUENCY		70	6	2	26	33	15	35	38	31
M 501 M2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE		54	7	2	22	20	15	24	23	23
M 502 M2-20 DO YOU USE OR REFER TO SHAPE OF OUTPUT WAVIFORMS		76	8	0	45	35	23	48	46	50
M 503 M2-21 DO YOU USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE		77	9	10	45	44	23	56	60	65
M 504 M2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE		82	6	3	41	25	15	30	37	27
FILTERS										
M 505 M2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE		74	6	3	31	27	15	27	29	27
FILTERS										
M 506 M2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE		65	5	2	28	16	8	20	21	19
INPUT L-TYPE FILTERS										
M 507 M2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE		61	5	2	24	16	8	19	19	19
INPUT L-TYPE FILTERS										
M 508 M2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE		60	4	2	21	15	8	16	17	15
FILTERS										
M 509 M2-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE		62	5	2	24	15	8	16	17	15
FILTERS										
M 510 M2-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DONT		21	11	11	22	24	15	42	48	31
REMEMBER WHICH TYPE OF FILTER										
M 511 M2-29 DO YOU HAVE THE OPTION OF REPLACING ONE TYPE OF		13	3	0	7	4	0	0	0	0
FILTER WITH A DIFFERENT TYPE FILTER										
M 512 M3-01 DO YOU WORK WITH OSCILLATORS IN YOUR PRESENT JOB		85	6	3	50	25	15	38	50	27

PCT MEMRS RESPONDING 'YES' BY DAFSC GROUPS

GP800A PAGE 153

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-15K																		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
																		151	A00	A01	A02	A03	A04	A05	A06	A07
M 513	M3-02	DO YOU INSPECT OSCILLATORS																								
M 514	M3-03	DO YOU ALIGN OR ADJUST OSCILLATORS																								
M 515	M3-04	DO YOU REMOVE OR REPLACE COMPLETE OSCILLATORS																								
M 516	M3-05	DO YOU REMOVE OR REPLACE OSCILLATOR COMPONENTS																								
M 517	M3-06	DO YOU TROUBLESHOOT TO OSCILLATOR CIRCUIT LEVEL																								
M 518	M3-07	DO YOU TROUBLESHOOT TO OSCILLATOR COMPONENTS																								
M 519	M3-08	DO YOU USE OR REFER TO FEEDBACK																								
M 520	M3-09	DO YOU USE OR REFER TO FREQUENCY DETERMINING DEVICES																								
(FDD)																										
M 521	M3-10	DO YOU USE OR REFER TO AMPLITUDE STABILITY																								
M 522	M3-11	DO YOU USE OR REFER TO FREQUENCY STABILITY																								
M 523	M3-12	DO YOU USE OR REFER TO DAMPING																								
M 524	M3-13	DO YOU USE OR REFER TO REGENERATIVE FEEDBACK																								
M 525	M3-14	DO YOU USE OR REFER TO PIEZOELECTRIC EFFECT																								
M 526	M3-15	DO YOU USE OR REFER TO CRITICAL DAMPING																								
M 527	M3-16	DO YOU USE OR REFER TO UNDER DAMPING																								
M 528	M3-17	DO YOU USE OR REFER TO OVER DAMPING																								
M 529	M3-18	DO YOU WORK WITH OSCILLATORS WHICH USE LC TANK																								
CIRCUITS AS FDD																										
M 530	M3-19	DO YOU WORK WITH OSCILLATORS WHICH USE RC NETWORKS AS																								
FDD																										
M 531	M3-20	DO YOU WORK WITH OSCILLATORS WHICH USE CRYSTALS AS																								
FDD																										
M 532	M3-21	DO YOU WORK WITH OSCILLATORS WHICH USE DONT REMEMBER																								
WHICH TYPE OF FDD																										
M 533	M3-22	DO YOU WORK WITH SERIES HARTLEY SINUSOIDAL																								
OSCILLATORS																										
M 534	M3-23	DO YOU WORK WITH SHUNT HARTLEY SINUSOIDAL OSCILLATORS																								
M 535	M3-24	DO YOU WORK WITH COLPITTS SINUSOIDAL OSCILLATORS																								
M 536	M3-25	DO YOU WORK WITH CLAPP SINUSOIDAL OSCILLATORS																								
M 537	M3-26	DO YOU WORK WITH BUTLER SINUSOIDAL OSCILLATORS																								
M 538	M3-27	DO YOU WORK WITH DONT REMEMBER WHICH TYPE OF																								
OSCILLATORS																										
I 539	I1-01	DO YOU WORK WITH MULTIVIBRATORS IN YOUR PRESENT JOB																								
I 540	I1-02	DO YOU INSPECT WAVE GENERATING OR SHAPING CIRCUITS																								
I 541	I1-03	DO YOU ALIGN OR ADJUST WAVE GENERATING OR SHAPING																								
CIRCUITS																										
I 542	I1-04	DO YOU CALIBRATE WAVE GENERATING OR SHAPING CIRCUITS																								
I 543	I1-05	DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING																								
CIRCUITS																										
I 544	I1-06	DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING																								
CIRCUIT COMPONENTS																										
I 545	I1-07	DO YOU REMOVE OR REPLACE COMPLETE WAVE GENERATING OR																								
SHAPING CIRCUITS																										
I 546	I1-08	DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING																								
COMPONENTS																										
I 547	I1-09	DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN LC TANK																								
CIRCUITS																										

PCT MBRS RESPONDING 'YES' BY DAESC GROUPS

GRADUA PAGE 15A

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

		DT-15K															
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		151	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD
I 548 11-10 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN RC NETWORKS		67	1	1	23	22	0	17	21	4							
I 549 11-11 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN CRYSTALS		57	1	1	19	24	0	22	31	8							
I 550 11-12 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN DOWNT REMEMBER WHICH TYPE OF FDO		16	1	1	6	13	8	10	15	4							
I 551 11-13 DO YOU WORK WITH ASTABLE MULTIVIBRATORS		61	0	0	26	18	0	8	6	0							
I 552 11-14 DO YOU WORK WITH MONOSTABLE MULTIVIBRATORS		63	1	0	27	22	0	13	10	8							
I 553 11-15 DO YOU WORK WITH BISTABLE MULTIVIBRATORS		63	1	0	26	22	0	13	8	12							
I 554 11-16 DO YOU WORK WITH DOWNT REMEMBER WHICH TYPE MULTIVIBRATORS		14	1	2	4	9	8	17	33	0							
I 555 12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS IN YOUR PRESENT JOB		79	2	1	26	27	8	30	33	23							
I 556 12-02 DO YOU WORK WITH SERIES DIODE LIMITERS		55	1	1	18	22	0	13	10	12							
I 557 12-03 DO YOU WORK WITH SHUNT DIODE LIMITERS		51	1	1	16	22	0	11	12	4							
I 558 12-04 DO YOU WORK WITH LIMITERS WITH BIAS		48	1	0	14	9	0	12	15	4							
I 559 12-05 DO YOU WORK WITH ZENER DIODE LIMITERS		60	1	1	20	16	0	13	12	4							
I 560 12-06 DO YOU WORK WITH TRANSISTOR LIMITERS		59	0	1	16	15	0	9	6	4							
I 561 12-07 DO YOU WORK WITH DOWNT KNOW WHICH TYPE OF LIMITERS		17	1	0	7	11	8	16	15	15							
I 562 12-08 DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS		64	1	0	17	15	0	9	10	0							
I 563 12-09 DO YOU WORK WITH DIODE CLAMPING CIRCUITS WITH BIAS		60	1	0	13	11	0	7	8	4							
I 564 12-10 DO YOU WORK WITH DOWNT KNOW WHICH TYPE OF CLAMPING CIRCUIT		19	1	1	6	13	8	20	21	15							
I 565 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIPMENT WHICH CONTAINS ELECTRON TUBES		87	11	3	23	40	77	73	90	69							
I 566 13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD		86	4	2	21	29	77	64	90	50							
I 567 13-03 DO YOU USE TUBE TESTERS TO CHECK ELECTRON TUBES		85	4	1	19	27	77	57	90	38							
I 568 13-04 DO YOU USE MULTIMETERS TO CHECK ELECTRON TUBES		62	4	2	10	18	38	31	38	42							
I 569 13-05 DO YOU USE SCOPES TO CHECK ELECTRON TUBES		61	4	2	10	22	23	39	42	38							
I 570 13-06 DO YOU USE SUBSTITUTION TO CHECK ELECTRON TUBES		85	5	2	15	27	69	55	77	46							
I 571 13-07 DO YOU USE OR REFER TO CUTOFF		56	3	1	10	9	8	28	37	23							
I 572 13-08 DO YOU USE OR REFER TO PEAK INVERSE VOLTAGE RATING		33	2	1	6	7	0	13	21	8							
I 573 13-09 DO YOU USE OR REFER TO PEAK CURRENT RATING		35	2	1	7	7	0	17	23	15							
I 574 13-10 DO YOU USE OR REFER TO TRANSIT TIME		27	2	0	7	5	8	12	17	8							
I 575 13-11 DO YOU USE OR REFER TO PLATE DISSIPATION RATING		30	2	0	5	5	0	13	19	4							
I 576 13-12 DO YOU USE OR REFER TO SATURATION		55	2	1	12	11	8	23	33	19							
I 577 13-13 DO YOU USE OR REFER TO DC PLATE RESISTANCE		91	2	0	8	5	0	20	31	12							
I 578 13-14 DO YOU COMPUTE ACTUAL VALUES OF THE DC PLATE RESISTANCE FOR ELECTRON TUBES		16	2	0	2	2	0	0	0	0							
I 579 13-15 DO YOU USE OR REFER TO PLATE VOLTAGE		83	5	2	16	24	38	43	56	38							
I 580 13-16 DO YOU USE OR REFER TO PLATE CURRENT		65	5	2	15	15	23	38	50	31							
I 581 13-17 DO YOU USE OR REFER TO GRID VOLTAGE		81	5	2	16	22	38	43	54	38							
I 582 13-18 DO YOU USE OR REFER TO GRID CURRENT		69	5	2	14	15	27	37	48	31							
I 583 13-19 DO YOU USE OR REFER TO CATHODE VOLTAGE		81	5	2	16	22	38	43	54	38							
I 584 13-20 DO YOU USE OR REFER TO CATHODE CURRENT		65	5	2	15	15	23	38	50	31							
I 585 13-21 DO YOU USE OR REFER TO THE TRIODE AMPLIFICATION FACTOR (THE AMPLIFICATION FACTOR FOR TRIODES IS DEFINED AS THE RATIO OF CHANGE IN PLATE VOLTAGE TO A CHANGE IN GRID VOLTAGE)		26	1	0	6	2	0	3	4	0							

PCT MBRS RESPONDING 'YES' BY DAESC GROUPS

GP800A PAGE 155

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

		DY-15K															
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		151	800	801	802	803	804	805	806	807							
I 586	13-22 DO YOU CALCULATE ACTUAL VALUES OF TRIODE AMPLIFICATION FACTORS	12	1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
I 587	13-23 DO YOU USE OR REFER TO MULTIGRID (TETRODE, PENODE, ETC) AMPLIFICATION FACTORS	29	1	0	7	4	0	3	6	0							
I 588	13-24 DO YOU USE OR REFER TO ELECTRON TUBE TRANSCONDUCTANCE (6, WHICH IS MEASURED IN MHOS)	18	1	0	6	2	0	1	2	0							
I 589	13-25 DO YOU CALCULATE ACTUAL VALUES OF ELECTRON TUBE TRANSCONDUCTANCES	11	1	0	2	2	0	1	0	0							
I 590	13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER CALLED AC PLATE RESISTANCE	15	1	0	3	0	0	2	2	0							
I 591	13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE RESISTANCE	12	1	0	2	2	0	0	0	0							
I 592	13-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECTRODE CAPACITANCE	28	1	0	7	2	0	1	0	0							
I 593	13-29 DO YOU USE OR REFER TO CHARACTERISTIC CURVES IN YOUR WORK WITH ELECTRON TUBES	20	1	0	7	0	0	2	0	0							
I 594	13-30 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE VOLTAGE FOR A SPECIFIED BIAS	18	1	0	5	0	0	5	0	0							
I 595	13-31 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE CURRENT FOR A SPECIFIED BIAS	17	1	0	6	2	0	5	0	0							
I 596	13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR CUTOFF	21	1	0	6	0	0	6	0	0							
I 597	13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR SATURATION	21	1	0	6	0	0	6	0	0							
I 598	13-34 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER GAIN	50	3	1	19	16	8	30	40	23							
I 599	13-35 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER EFFICIENCY	38	2	1	9	11	0	19	25	8							
I 600	13-36 DO YOU USE TEST TUBE CHECKERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	59	3	1	11	16	31	32	54	12							
I 601	13-37 DO YOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	45	3	1	8	11	15	23	25	31							
I 602	13-38 DO YOU USE OSCILLOSCOPES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	56	3	1	8	15	15	26	23	27							
I 603	13-39 DO YOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	20	1	0	5	7	0	3	4	0							
I 604	13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH AS INPUT CAPACITANCE	11	1	0	1	4	0	2	2	0							
I 605	13-41 DO YOU USE OR REFER TO TUBE SOCKET NOTATION	79	4	1	15	27	38	47	63	42							
I 606	13-42 DO YOU USE OR REFER TO PIN NUMBERING SYSTEMS	83	5	1	17	25	59	47	62	46							
I 607	13-43 DO YOU USE OR REFER TO THE TYPE OF MATERIAL OR THE OPERATING TEMPERATURE OF THE EMITTING SURFACE IN THE ELECTRON TUBES YOU WORK ON	17	1	0	2	7	0	6	8	0							
I 608	13-44 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL SUCH AS MANUALS OR CHARTS	76	2	1	11	13	59	27	40	27							
I 609	13-45 DO YOU WORK WITH ELECTRON TUBE AMPLIFIERS OR CIRCUITS IN YOUR PRESENT JOB	79	3	1	13	18	23	49	67	30							
I 610	13-46 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON TUBE AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	40	3	1	6	5	0	9	12	0							

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-15K

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	100	101	102	103	104	105	106	107	108
J 611 J1-03 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS	34	2	1	2	7	0	0	12	0	
J 612 J1-04 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	61	2	1	9	13	0	10	21	23	
J 613 J1-05 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS	41	1	1	3	7	0	10	12	4	
J 614 J1-06 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED AMPLIFIERS	53	1	1	7	11	0	11	15	4	
J 615 J1-07 DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW WHICH TYPE OF AMPLIFIER	23	1	1	4	7	15	21	31	15	
J 616 J2-01 DO YOU WORK WITH GAS TUBES (NOT CATHODE OR COLD CATHODE)	65	6	1	10	22	31	46	63	38	
J 617 J2-02 DO YOU WORK WITH CATHODE-RAY TUBES	86	7	5	21	47	49	47	87	62	
J 618 J2-03 DO YOU USE OR REFER TO THE CHARACTERISTICS OF BEAM POWER TUBES	22	1	0	5	5	15	6	8	8	
J 619 J2-04 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM POWER TUBES ARE USED	31	2	0	4	5	31	13	17	12	
J 620 J2-05 DO YOU USE OR REFER TO THE CHARACTERISTICS OF THYRATONS	11	2	1	6	27	15	48	63	50	
J 621 J2-06 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH THYRATONS ARE USED	11	3	1	3	31	31	61	85	50	
J 622 J2-07 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTRON GUNS OF CATHODE-RAY TUBES (CRT)	82	4	2	14	29	54	46	58	46	
J 623 J2-08 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROMAGNETIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES (CRT)	82	2	1	13	36	46	36	40	35	
J 624 J2-09 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES (CRT)	73	3	1	12	27	38	35	42	31	
J 625 J2-10 DO YOU USE OR REFER TO PHOSPHOR SCREENS	77	2	0	19	31	54	38	48	42	
J 626 J2-11 DO YOU USE OR REFER TO AQUADAG COATINGS	76	2	1	8	29	46	17	21	15	
J 627 J2-12 DO YOU USE OR REFER TO ELECTRON OPTICS	45	1	0	8	24	0	8	12	0	
J 628 J2-13 DO YOU USE OR REFER TO PERSISTENCE	48	1	0	8	31	62	21	15	31	
J 629 J2-14 DO YOU USE OR REFER TO DECAY TIMES	37	1	0	9	20	0	11	12	12	
J 630 J2-15 DO YOU USE OR REFER TO FLUORESCENCE	49	1	1	9	20	8	17	21	15	
J 631 J2-16 DO YOU USE OR REFER TO PHOSPHORESCENCE	56	1	0	12	20	8	19	23	23	
J 632 J3-01 DO YOU WORK ON TRANSMIT OR RECEIVE SYSTEMS IN YOUR PRESENT JOB	44	9	3	36	56	15	77	90	81	
J 633 J3-02 DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS	33	5	1	25	22	8	67	90	77	
J 634 J3-03 DO YOU PERFORM TASKS ON FREQUENCY MIXERS	33	4	0	25	31	0	57	75	62	
J 635 J3-04 DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS IN YOUR WORK WITH TRANSMIT OR RECEIVE SYSTEMS	34	3	0	25	24	0	41	62	38	
J 636 J3-05 DO YOU PERFORM TASKS ON REACTANCE MODULATORS	18	2	0	13	18	0	22	25	27	
J 637 J3-06 DO YOU PERFORM TASKS ON MODULATED OSCILLATORS	27	4	0	19	25	0	29	38	27	
J 638 K1-01 DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR PRESENT JOB	34	1	1	10	9	0	9	6	19	
K 639 K1-02 DO YOU INSPECT AM TRANSMIT OR RECEIVE SYSTEMS	33	1	0	7	7	0	5	4	12	
K 640 K1-03 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS	30	1	0	7	9	0	3	2	12	
K 641 K1-04 DO YOU ALIGN OR ADJUST AM TRANSMIT OR RECEIVE SYSTEMS	32	1	0	9	9	0	5	2	12	

PCT MBRS RESPONDING 'YES' BY DAFSC GROUPS

GPBDDA PAGE 158

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

0Y-15K

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	800	801	802	803	804	805	806	807
K 676 K2-11 DO YOU PERFORM TASKS ON DRIVERS INTERMEDIATE	31	1	0	17	9	0	7	6	9
AMPLIFIERS)									
K 677 K2-12 DO YOU PERFORM TASKS ON POWER AMPLIFIERS	30	1	0	19	9	0	12	12	12
K 678 K2-13 DO YOU PERFORM TASKS ON RF AMPLIFIERS	30	1	0	21	9	0	16	17	15
K 679 K2-14 DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS	30	1	0	19	9	0	15	19	12
K 680 K2-15 DO YOU PERFORM TASKS ON IF AMPLIFIERS	32	1	0	20	15	0	17	19	15
K 681 K2-16 DO YOU PERFORM TASKS ON LIMITERS	31	1	0	16	5	0	11	15	0
K 682 K2-17 DO YOU PERFORM TASKS ON FREQUENCY DISCRIMINATORS	30	1	0	24	13	0	15	17	12
K 683 K2-18 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSMITTERS	20	2	0	18	15	0	17	17	19
K 684 K2-19 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM RECEIVERS	32	1	0	26	16	0	16	15	19
K 685 K3-01 DO YOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL (BASE 8) NUMBERS	10	0	1	31	30	0	9	2	9
K 686 K3-02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2) NUMBERS	16	0	2	36	42	0	7	0	8
K 687 K3-03 DO YOU CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS	8	0	1	31	40	0	10	0	9
K 688 K3-04 DO YOU CONVERT OCTAL NUMBERS TO BINARY NUMBERS	7	0	0	27	35	0	8	0	0
K 689 K3-05 DO YOU CONVERT BINARY NUMBERS TO DECIMAL NUMBERS	12	1	1	37	42	0	9	2	9
K 690 K3-06 DO YOU CONVERT BINARY NUMBERS TO OCTAL NUMBERS	7	0	0	28	38	0	8	0	0
K 691 K3-07 DO YOU ADD BINARY NUMBERS TO GET A SUM	12	2	2	26	33	0	7	2	9
K 692 K3-08 DO YOU SUBTRACT BINARY NUMBERS USING THE END-AROUND-CARRY METHOD	9	1	1	17	31	0	4	0	0
K 693 K3-09 DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT SUBTRACTION METHOD	11	2	1	20	31	0	6	2	0
K 694 K3-10 DO YOU ADD OCTAL NUMBERS TO GET A SUM	8	1	0	19	27	0	5	0	0
K 695 L1-01 IM YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO LOGIC FUNCTIONS	29	4	7	31	36	0	9	0	19
L 696 L1-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES	16	3	3	19	27	0	4	0	9
L 697 L1-03 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	17	2	3	19	25	0	4	0	9
L 698 L1-04 DO YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS	17	2	3	19	25	0	4	0	9
L 699 L1-05 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS OR GATES	16	2	3	19	25	0	3	0	0
L 700 L1-06 DO YOU USE OR REFER TO TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES	21	4	6	24	35	0	3	0	0
L 701 K1-07 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	20	4	6	24	35	0	3	0	0
L 702 K1-08 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS	21	4	6	23	36	0	4	0	9
L 703 L1-09 DO YOU USE OR REFER TO TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS	21	3	5	23	36	0	3	0	0
L 704 L1-10 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR AND GATES	27	4	7	29	40	0	6	0	8
L 705 L1-11 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR OR GATES	27	4	7	29	40	0	6	0	8
L 706 L1-12 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR NAND OR NOR GATES	27	4	7	30	40	0	5	0	9

PCT MBRS RESPONDING 'YES' BY DAESC GROUPS

GP80DA PAGE 159

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	A00	A01	A02	A03	A04	A05	A06	A07
L 707 L2-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE OR GATES	25	4	6	28	40	0	6	0	0
L 708 L2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC CIRCUITS	18	1	2	21	18	0	3	0	4
L 709 L2-02 DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUITS	9	1	0	7	5	0	1	0	0
L 710 L2-03 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS	8	1	1	4	7	0	1	0	0
L 711 L2-04 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN EQUATIONS	7	1	0	10	9	0	2	2	0
L 712 L2-05 DO YOU MEASURE INPUTS OR OUTPUTS OF LOGIC GATES	16	1	1	17	13	0	3	2	0
L 713 L2-06 DO YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS	8	0	1	9	9	0	2	2	0
L 714 L2-07 DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN ALGEBRA	9	0	1	12	11	0	1	0	0
L 715 L2-08 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUIT GATES	15	0	1	7	9	0	2	2	0
L 716 L2-09 DO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS	10	0	1	3	7	0	2	2	0
L 717 L2-10 DO YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE	17	1	2	20	18	0	2	0	0
L 718 L2-11 DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL HALF OR FULL ADDER LOGIC DIAGRAMS	7	0	0	9	9	0	0	0	0
L 719 L2-12 DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER LOGIC DIAGRAMS	12	0	0	12	9	0	1	0	0
L 720 L2-13 DO YOU WORK WITH ASTABLE (FREE RUNNING) MULTIVIBRATORS	20	0	1	18	16	0	3	2	4
L 721 L2-14 DO YOU WORK WITH BISTABLE (FLIP-FLOP) MULTIVIBRATORS	19	0	2	20	16	0	3	0	8
L 722 L2-15 DO YOU WORK WITH MONOSTABLE (ONE-SHOT) MULTIVIBRATORS	20	0	1	21	16	0	2	0	0
L 723 L2-16 DO YOU USE OR REFER TO FLIP-FLOP MULTIVIBRATOR SYMBOLS	20	0	1	18	18	0	1	0	0
L 724 L2-17 DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIBRATOR SYMBOLS	20	0	1	18	15	0	1	0	0
L 725 L2-18 DO YOU USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAMS	19	1	2	19	20	0	1	0	0
L 726 L2-19 DO YOU USE OR REFER TO FLIP-FLOP TRUTH TABLES	16	1	1	15	18	0	1	0	0
L 727 L2-20 DO YOU USE OR REFER TO COMPLEMENTED FLIP-FLOP LOGIC SYMBOLS	17	1	1	16	15	0	0	0	0
L 728 L2-21 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC SYMBOLS	17	0	1	15	15	0	0	0	0
L 729 L2-22 DO YOU MEASURE OUTPUT WAVESHAPES OF LOGIC CIRCUITS	17	0	1	17	15	0	2	0	4
L 730 L2-23 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS	16	0	1	15	15	0	1	0	0
L 731 L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP SCHEMATIC DIAGRAMS	15	0	1	15	15	0	1	0	0
L 732 L2-25 DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP LOGIC SYMBOLS	12	1	1	9	13	0	1	0	0

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSM

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	800	801	802	803	804	805	806	807
L 733 L3-01 DO YOU WORK WITH DIGITAL COUNTERS IN YOUR PRESENT JOB	28	16	21	41	36	0	23	21	38
L 734 L3-02 DO YOU USE OR REFER TO UP-COUNTERS	21	1	4	29	25	0	9	10	4
L 735 L3-03 DO YOU USE OR REFER TO DOWN-COUNTERS	27	1	4	26	25	0	8	6	4
L 736 L3-04 DO YOU USE OR REFER TO SERIAL COUNTERS	19	4	2	28	22	0	5	6	4
L 737 L3-05 DO YOU USE OR REFER TO PARALLEL COUNTERS	15	1	1	24	16	0	3	2	8
L 738 L3-06 DO YOU USE OR REFER TO RING COUNTERS	14	0	1	15	9	0	3	4	0
L 739 L3-07 DO YOU USE OR REFER TO DECADE COUNTERS	18	7	6	24	16	0	10	8	23
L 740 L3-08 DO YOU USE OR REFER TO COUNT DETECT CIRCUITS	18	1	1	19	9	0	7	2	15
L 741 L3-09 DO YOU USE OR REFER TO DOWN CLOCKS	19	1	4	19	27	0	4	2	0
L 742 L3-10 DO YOU USE OR REFER TO UP CLOCKS	18	1	5	21	27	0	3	2	0
L 743 L3-11 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF UP-COUNTERS HAVING COMPLEMENTED FLIP-FLOPS	18	0	3	18	16	0	3	0	4
L 744 L3-12 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP-FLOPS	20	0	3	16	15	0	2	0	0
L 745 L3-13 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF DECADE COUNTERS	15	3	2	19	15	0	6	2	19
L 746 L3-14 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF RING COUNTERS	12	0	0	14	11	0	1	0	0
L 747 L3-15 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE REGISTER	14	0	0	18	18	0	3	2	4
L 748 L3-16 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT REGISTERS	14	1	0	22	22	0	3	0	0
L 749 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF COUNTERS	15	1	0	21	18	0	9	2	19
L 750 L3-18 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR UP-COUNTERS HAVING COMPLEMENTED FLIP-FLOPS	13	1	1	14	11	0	3	6	0
L 751 L3-19 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP-FLOPS	12	0	1	13	11	0	2	2	0
L 752 L3-20 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE REGISTER	10	0	0	12	11	0	2	2	0
L 753 L3-21 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR OTHER TYPES OF COUNTERS	11	1	1	14	13	0	2	2	0
L 754 L3-22 DO YOU CONSTRUCT TRUTH TABLES FROM LOGIC DIAGRAMS OF DECADE COUNTERS	8	0	0	7	9	0	1	2	0
L 755 L3-23 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP IN RING COUNTERS FOR SPECIFIC INPUT PULSES	12	0	1	13	9	0	2	2	4
L 756 L3-24 DO YOU DETERMINE THE APPROPRIATE AND GATE NECESSARY IN COUNT DETECT CIRCUITS TO INDICATE A REQUIRED COUNT	14	0	2	14	9	0	3	2	8
M 757 M1-01 DO YOU WORK WITH SAUTOOM HAVE GENERATORS	76	4	7	31	49	23	50	62	38
M 758 M1-02 DO YOU WORK WITH TRAPEZOIDAL WAVE GENERATORS	63	1	0	11	29	8	16	15	15
M 759 M1-03 DO YOU WORK WITH PULSED OSCILLATORS WITH REGENERATIVE FEEDBACK	60	3	1	17	35	15	23	25	15
M 760 M1-04 DO YOU WORK WITH PULSED OSCILLATORS WITHOUT REGENERATIVE FEEDBACK	51	1	2	14	25	15	23	23	15

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TASK		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		151	800	801	802	803	804	805	806	807		
M 761 M1-05 DO YOU WORK WITH BLOCKING OSCILLATORS												
		67	3	1	14	51	15	49	62	35		
M 762 M1-06 DO YOU USE OR REFER TO RISE TIME												
		62	4	6	43	64	31	60	75	58		
M 763 M1-07 DO YOU USE OR REFER TO FALL OR FLYBACK TIME												
		67	4	2	36	47	31	56	73	58		
M 764 M1-08 DO YOU USE OR REFER TO SWEEP TIME												
		71	15	17	43	58	38	64	79	62		
M 765 M1-09 DO YOU USE OR REFER TO ELECTRICAL LENGTH OF SAWTOOTH												
		58	7	5	17	45	31	44	48	38		
M 766 M1-10 DO YOU USE OR REFER TO PHYSICAL LENGTH OF SAWTOOTH												
		56	4	4	17	38	31	41	38	38		
M 767 M1-11 DO YOU USE OR REFER TO LINEAR SLOPE OF SAWTOOTH												
		61	3	3	20	38	31	44	44	38		
M 768 M1-12 DO YOU USE OR REFER TO GATE LENGTH OF SAWTOOTH												
		41	4	2	12	38	31	46	48	46		
M 769 M2-01 DO YOU USE SIGNAL GENERATORS IN YOUR PRESENT JOB												
		75	40	45	66	31	23	31	38	31		
M 770 M2-02 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL												
		75	27	30	58	31	23	32	40	31		
M 771 M2-03 DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS												
		62	29	31	35	29	15	24	37	15		
M 772 M2-04 DO YOU TROUBLESHOOT TO AN ASSEMBLY OR SUBASSEMBLY												
		58	15	20	31	18	15	26	38	12		
M 773 M2-05 DO YOU TROUBLESHOOT TO THE SMALLEST REPLACEABLE												
		55	6	7	22	9	8	20	33	12		
M 774 M2-06 DO YOU USE AUDIO SINE-WAVE GENERATORS												
		67	18	29	46	20	0	7	2	15		
M 775 M2-07 DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS SUCH												
		36	2	6	41	15	0	10	6	15		
M 776 M2-08 DO YOU USE RF GENERATORS LESS THAN 1,000 MH												
		36	9	12	43	20	8	9	8	4		
M 777 M2-09 DO YOU USE RF GENERATORS GREATER THAN 1,000 MH												
		27	13	7	36	22	8	18	23	12		
M 778 M2-10 DO YOU USE OTHER SPECIAL PURPOSE OR MULTI-FUNCTION												
		58	10	8	45	25	8	18	21	15		
M 779 M3-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING												
		45	19	26	25	29	77	54	71	58		
M 780 M3-02 DO YOU INSPECT MOTORS												
		44	12	12	21	24	77	50	71	50		
M 781 M3-03 DO YOU CLEAN OR LUBRICATE MOTORS												
		44	11	6	20	24	77	39	62	35		
M 782 M3-04 DO YOU OPERATE MOTORS												
		41	18	17	23	20	77	50	71	50		
M 783 M3-05 DO YOU REMOVE OR REPLACE COMPLETE MOTORS												
		43	5	1	21	25	77	51	71	46		
M 784 M3-06 DO YOU REMOVE OR REPLACE MOTOR PARTS												
		27	5	0	11	11	23	26	40	19		
M 785 M3-07 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE												
		43	7	8	21	29	77	53	71	54		
M 786 M3-08 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF MOTORS												
		28	4	0	10	9	38	17	29	8		
M 787 M3-09 DO YOU PERFORM ANY TASKS ON FIELD COILS												
		15	1	0	7	9	23	6	8	8		
M 788 M3-10 DO YOU PERFORM ANY TASKS ON ARMATURES												
		19	1	1	7	9	23	10	12	15		
M 789 M3-11 DO YOU PERFORM ANY TASKS ON ROTORS												
		20	0	1	8	9	31	10	13	15		
M 790 M3-12 DO YOU PERFORM ANY TASKS ON BRUSHES												
		30	1	1	11	9	38	14	23	12		
M 791 M3-13 DO YOU PERFORM ANY TASKS ON SLIP RINGS												
		24	0	0	8	9	23	13	25	9		
M 792 M3-14 DO YOU PERFORM ANY TASKS ON COMMUTATORS												
		20	0	1	7	7	23	9	12	12		
M 793 M3-15 DO YOU PERFORM ANY TASKS ON POLE PIECES												
		15	0	0	5	5	23	9	12	12		

PC1 MBRS RESPONDING 'YES' BY DAFSC GROUPS

TASK GROUP SUMMARY

PERCENT MEMBERS PERFORMING

DY-15K												SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
												151	800	801	802	803	804	805	806	807
M 794	M3-16 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OF THE FORCE OR TORQUE CREATED BY A MOTOR	13	0	0	3	9	0	10	15	8										
M 795	M3-17 DO YOU DETERMINE OR MEASURE THE DIRECTION OF THE MECHANICAL FORCE OR TORQUE CREATED BY A MOTOR	15	0	0	4	11	0	20	31	19										
M 796	M3-18 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OR DIRECTION OF THE INDUCED VOLTAGE IN MOTORS	11	0	1	3	5	0	8	10	12										
M 797	M3-19 DO YOU WORK WITH SYNCHRONOUS MOTORS	34	1	1	13	16	46	37	50	42										
M 798	M3-20 DO YOU WORK WITH INDUCTION MOTORS	27	3	3	12	18	31	33	48	31										
M 799	M3-21 DO YOU WORK WITH SPLIT-PHASE MOTORS	15	2	6	6	9	23	18	19	31										
M 800	M3-22 DO YOU WORK WITH SOME COMBINATION OF THE ABOVE MOTORS	24	4	4	14	22	38	32	48	31										
M 801	M3-23 DO YOU INSPECT GENERATORS	9	16	20	9	15	30	31	44	31										
M 802	M3-24 DO YOU CLEAN OR LUBRICATE GENERATORS	8	7	3	7	11	31	22	31	27										
M 803	M3-25 DO YOU OPERATE GENERATORS	10	18	23	12	13	31	30	40	31										
M 804	M3-26 DO YOU REMOVE OR REPLACE COMPLETE GENERATORS	7	4	2	7	16	31	37	52	38										
M 805	M3-27 DO YOU REMOVE OR REPLACE GENERATOR PARTS	5	2	0	3	7	8	10	13	4										
M 806	M3-28 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS OF GENERATORS	8	4	9	7	18	38	37	48	42										
M 807	M3-29 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF GENERATORS	6	2	0	3	5	8	5	8	0										
M 808	M1-01 DO YOU WORK WITH METERS IN YOUR PRESENT JOB	82	53	60	78	71	69	77	87	77										
M 809	M1-02 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF PERMANENT MAGNETS	28	10	6	22	18	15	16	15	15										
M 810	M1-03 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF MOVING COILS	28	10	8	27	24	8	15	15	15										
M 811	M1-04 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF SPIRAL SPRINGS	24	10	5	16	16	8	12	10	15										
M 812	M1-05 DO YOU READ METER SCALES	85	50	60	80	76	69	81	92	81										
M 813	M1-06 DO YOU EXTEND THE RANGE OF AMMETERS	33	15	12	31	35	8	34	40	27										
M 814	M1-07 DO YOU ZERO OHMMETERS	84	51	60	79	76	69	80	90	81										
M 815	M1-08 DO YOU ZERO AMMETERS	48	25	28	41	40	15	32	31	27										
M 816	M1-09 DO YOU EXTEND THE RANGE OF VOLTMETERS	53	26	25	38	45	23	49	67	31										
M 817	M1-10 DO YOU USE OR REFER TO VOLTMETER SENSITIVITY (EXPRESSED IN UNITS OF OHMS PER VOLT)	53	13	17	35	42	15	39	50	27										
M 818	M2-01 DO YOU WORK WITH SATURABLE REACTORS OR MAGNETIC AMPLIFIERS IN YOUR PRESENT JOB	6	1	0	2	7	0	31	38	35										
M 819	M2-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	4	0	0	1	5	0	28	37	27										
M 820	M2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	4	0	0	1	5	0	17	23	15										
M 821	M2-04 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	3	0	0	1	2	0	18	13	15										
M 822	M2-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	4	0	0	1	5	0	26	33	27										
M 823	M2-06 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	4	0	0	1	7	0	30	40	27										
M 824	M2-07 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIER OR SATURABLE REACTOR COMPONENTS	3	0	0	1	0	0	11	15	8										

PCT MBRS RESPONDING 'YES' BY DAFSC GROUPS

6P80DA PAGE 163

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DI-ISM

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	AD0	AD1	AD2	AD3	AD4	AD5	AD6	AD7
N 825 N2-08 DO YOU USE OR REFER TO HYSTERESIS CURVES OR LOOPS	5	0	0	1	2	0	6	8	4
N 826 N2-09 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT	4	0	0	1	4	0	5	4	4
WAVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF SINGLE WINDING SATURABLE REACTORS									
N 827 N2-10 DO YOU MEASURE OUTPUT WAVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF SINGLE WINDING SATURABLE REACTORS	5	0	0	1	5	0	6	6	4
N 828 N2-11 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT WAVEFORMS FOR MAGNETIC AMPLIFIERS	4	0	0	1	7	0	5	4	8
N 829 N2-12 DO YOU USE OR REFER TO COERCITIVE FORCE IN SATURABLE REACTORS	3	0	0	2	0	0	2	2	4
N 830 N2-13 DO YOU USE OR REFER TO RESIDUAL MAGNETISM IN SATURABLE REACTORS	3	0	0	2	0	0	3	2	4
N 831 N2-14 DO YOU USE OR REFER TO FLUX DENSITY IN SATURABLE REACTORS	3	0	0	2	0	0	2	2	4
N 832 N2-15 DO YOU USE OR REFER TO POINT OF SATURATION IN SATURABLE REACTORS	3	0	0	2	2	0	3	2	4
N 833 N2-16 DO YOU USE OR REFER TO SATURABLE REACTOR SCHEMATIC SYMBOLS	3	0	0	2	5	0	6	4	19
N 834 N3-01 DO YOU WORK WITH WAVESHAPING CIRCUITS IN YOUR PRESENT JOB	70	1	4	32	51	23	44	56	38
N 835 N3-02 DO YOU USE OR REFER TO TRANSIENT INTERVALS	40	1	1	15	20	8	17	17	15
N 836 N3-03 DO YOU USE OR REFER TO PULSE WIDTH (PW)	66	1	3	27	45	23	42	48	38
N 837 N3-04 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)	47	1	3	19	33	23	32	35	27
N 838 N3-05 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF)	51	1	3	19	47	23	49	54	38
N 839 N3-06 DO YOU USE OR REFER TO DIFFERENTIATING CIRCUITS	66	1	0	22	25	0	18	27	4
N 840 N3-07 DO YOU USE OR REFER TO INTEGRATING CIRCUITS	68	0	1	26	36	0	23	27	12
N 841 N3-08 DO YOU USE OR REFER TO THE CLASSIFICATION OF TIME CONSTANTS (TC) AS LONG, MEDIUM, OR SHORT	46	1	0	18	18	15	16	21	4
N 842 N3-09 DO YOU DETERMINE WHETHER AN LR OR RC CIRCUIT IS DIFFERENTIATING OR INTEGRATING BASED ON THE TIME CONSTANT AND OUTPUT CONFIGURATION	36	0	0	11	13	0	4	2	4
N 843 N3-10 DO YOU WORK WITH SQUARE WAVE GENERATORS	55	0	2	27	20	8	16	8	19
N 844 N3-11 DO YOU WORK WITH RECTANGULAR WAVE GENERATORS	39	0	1	16	15	6	12	2	15
N 845 01-01 DO YOU WORK ON SINGLE SIDEBAND SYSTEMS IN YOUR PRESENT JOB	8	1	0	2	0	0	2	4	0
0 846 01-02 DO YOU INSPECT SSR TRANSMIT OR RECEIVE SYSTEMS	6	1	0	2	2	0	2	4	0
0 847 01-03 DO YOU CLEAN SSR TRANSMIT OR RECEIVE SYSTEMS	6	0	0	1	0	0	1	2	0
0 848 01-04 DO YOU ALIGN SSR TRANSMIT OR RECEIVE SYSTEMS	6	0	0	2	0	0	2	4	0
0 849 01-05 DO YOU TROUBLESHOOT TO SSR TRANSMIT OR RECEIVE SYSTEMS	6	0	0	1	0	0	1	2	0
0 850 01-06 DO YOU TROUBLESHOOT TO SSR TRANSMIT OR RECEIVE COMPONENTS	6	0	0	1	0	0	2	4	0
0 851 01-07 DO YOU REMOVE OR REPLACE SSR TRANSMIT OR RECEIVE SYSTEMS	6	1	0	1	0	0	1	2	0
0 852 01-08 DO YOU REMOVE OR REPLACE SSR TRANSMIT OR RECEIVE COMPONENTS	6	0	0	1	0	0	1	2	0

PCT MBRS RESPONDING 'YES' BY DAFSC GROUPS

TASK GROUP SUMMARY

PERCENT MEMBERS PERFORMING

GPADNA PAGE 166

AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	800	801	802	803	804	805	806	807	807
0 916 03-03 DO YOU CLEAN ANTENNAS	15	32	36	18	58	62	66	69	73	73
0 917 03-04 DO YOU PHYSICALLY ALIGN ANTENNAS	15	17	21	13	76	54	70	77	62	62
0 918 03-05 DO YOU ELECTRICALLY ALIGN ANTENNAS	12	10	6	11	73	46	71	75	65	65
0 919 03-06 DO YOU TROUBLESHOOT TO ANTENNAS	16	15	10	16	73	69	84	94	81	81
0 920 03-07 DO YOU TROUBLESHOOT TO ANTENNA COMPONENTS	10	7	4	12	67	46	70	83	65	65
0 921 03-08 DO YOU REMOVE OR INSTALL ANTENNAS	15	29	35	19	82	54	84	94	81	81
0 922 03-09 DO YOU REMOVE OR REPLACE COMPONENTS OF ANTENNAS	10	5	14	13	78	54	69	75	62	62
0 923 03-10 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF E OR ELECTRIC FIELD LINES	8	0	1	8	9	8	9	10	4	4
0 924 03-11 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF H OR MAGNETIC FIELD LINES	9	0	1	8	9	0	6	6	0	0
0 925 03-12 DO YOU DETERMINE THE DIRECTION OF THE MAGNETIC LINES IN RELATION TO THE ELECTRIC LINES OF FORCE FOR ANTENNAS	8	0	0	7	9	0	6	6	0	0
0 926 03-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE OF CORRECT LENGTH (HALF-WAVE) ACT AS INDUCTIVE LOADS TO THE GENERATOR	8	0	0	6	9	0	10	8	8	8
0 927 03-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE LONGER THAN A HALF-WAVE ACT AS INDUCTIVE LOADS TO THE GENERATOR	9	0	0	6	9	0	10	8	8	8
0 928 03-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS CAPACITIVE LOADS TO THE GENERATOR	10	0	0	6	7	0	6	4	4	4
0 929 03-16 DO YOU WORK WITH HERTZ ANTENNAS	10	2	2	7	11	0	14	15	15	15
0 930 03-17 DO YOU WORK WITH MARCONI ANTENNAS	8	1	0	2	2	0	1	0	0	0
0 931 03-18 DO YOU WORK WITH BROADSIDE ARRAYS	6	0	2	4	2	0	3	4	0	0
0 932 03-19 DO YOU WORK WITH END-FIRE ARRAYS	6	0	2	4	2	0	6	10	4	4
0 933 03-20 DO YOU WORK WITH CARDIOID ARRAYS	6	0	0	1	7	0	3	6	0	0
0 934 03-21 DO YOU WORK WITH COLLIMAR ARRAYS	6	1	2	4	7	0	9	10	4	4
0 935 03-22 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC INDUCTION FIELDS WHEN WORKING WITH ANTENNAS	9	0	0	6	5	0	5	2	8	8
0 936 03-23 DO YOU MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF ANTENNAS	6	0	0	1	5	0	3	2	0	0
0 937 03-24 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS	8	0	1	7	16	15	15	12	15	15
0 938 03-25 DO YOU MEASURE ELECTROMAGNETIC RADIATION FIELDS OF ANTENNAS	6	0	0	3	7	0	4	4	0	0
0 939 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION	6	0	0	3	5	0	3	4	4	4
0 940 03-27 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD	6	0	0	2	4	0	3	4	0	0
0 941 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY POLARIZED	9	2	6	8	7	0	16	6	4	4
0 942 03-29 ARE ANY OF THE ANTENNAS YOU WORK ON CIRCULARLY POLARIZED	6	1	6	14	5	0	19	8	19	19
0 943 03-30 DO YOU MEASURE OR DETERMINE THE POLARITY OF ANTENNAS YOU WORK ON	7	0	1	5	5	0	5	0	0	0
0 944 03-31 DO YOU CONSTRUCT, OR MAKE THE CALCULATIONS NECESSARY TO CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR SPECIFIC WAVELENGTHS	7	0	1	7	4	0	2	0	4	4

QY-TSM

[illegible]

TASK	GROUP SUMMARY
PERCENT MEMBERS PERFORMING	

[illegible]

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	800	801	802	803	804	805	806	807
P1025 P2-42 DO YOU DETERMINE THE POSITIONING OR SIZE OF APERTURES IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA	2	0	0	0	2	0	1	2	0
P1026 P2-43 ARE CHOKE JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	3	0	0	2	11	0	22	42	0
P1027 P2-44 ARE ROTATING JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	3	0	0	2	25	31	50	69	36
P1028 P2-45 ARE DON'T REMEMBER THE KIND OF JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	2	4	0	2	33	31	24	21	31
P1029 P2-46 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING	3	0	1	2	11	0	9	12	0
P1030 P2-47 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE TUNING	3	0	0	2	15	0	5	8	0
P1031 P2-48 DO YOU TUNE CAVITY RESONATORS USING VOLUME TUNING	3	0	1	2	15	0	11	10	12
P1032 P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER THE METHOD OF TUNING	2	2	4	1	20	38	34	35	36
P1033 P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY RESONATORS	3	1	1	3	29	23	32	40	27
P1034 P3-01 IN YOUR PRESENT JOB DO YOU WORK WITH KLYSTRONS, TRAVELING WAVE TUBES (TWT), PARAMETRIC AMPLIFIERS, OR MAGNETRONS	6	3	6	10	35	46	67	83	54
P1035 P3-02 DO YOU USE OR REFER TO INTERELECTRODE CAPACITANCE	4	0	1	4	7	0	7	8	4
P1036 P3-03 DO YOU USE OR REFER TO ELECTRON TRANSIT TIME	4	0	1	3	5	0	10	12	8
P1037 P3-04 DO YOU USE OR REFER TO LEAD INDUCTANCE	4	0	1	3	5	0	7	4	8
P1038 P3-05 DO YOU USE OR REFER TO RF LOSSES IN EXTERNAL CIRCUITRY	4	1	2	7	13	0	16	13	12
P1039 P3-06 DO YOU USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY	4	1	0	3	7	0	3	4	4
P1040 P3-07 DO YOU USE OR REFER TO ELECTRON BUNCHING	4	1	0	3	5	0	4	6	4
P1041 P3-08 DO YOU WORK WITH TWO-CAVITY KLYSTRONS	3	0	1	1	9	15	15	19	19
P1042 P3-09 DO YOU WORK WITH THREE-CAVITY KLYSTRONS	3	0	1	1	2	8	3	2	4
P1043 P3-10 DO YOU WORK WITH REFLEX KLYSTRONS	5	2	2	4	29	15	35	48	27
P1044 P3-11 DO YOU WORK WITH TRAVELING-WAVE TUBES (TWT)	3	0	1	4	4	8	2	2	0
P1045 P3-12 DO YOU WORK WITH NONDEGENERATIVE PARAMETRIC AMPLIFIERS	3	0	0	4	2	0	4	0	0
P1046 P3-13 DO YOU WORK WITH UP-CONVERTER PARAMETRIC AMPLIFIERS	3	0	0	3	2	0	3	0	0
P1047 P3-14 DO YOU WORK WITH MAGNETRONS	2	0	0	2	38	46	68	85	54
P1048 P3-15 DO YOU INSPECT KLYSTRONS OR TWT	5	1	2	3	22	23	43	56	42
P1049 P3-16 DO YOU CLEAN KLYSTRONS OR TWT	5	1	1	2	16	15	24	38	15
P1050 P3-17 DO YOU TUNE KLYSTRONS OR TWT ELECTRICALLY	5	3	2	1	27	23	31	35	36
P1051 P3-18 DO YOU TUNE KLYSTRONS OR TWT MECHANICALLY	5	2	3	2	16	15	47	60	46
P1052 P3-19 DO YOU PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR TWT	5	3	2	5	31	23	50	63	46
P1053 P3-20 DO YOU TROUBLESHOOT KLYSTRONS OR TWT	5	1	0	2	22	23	43	60	42
P1054 P3-21 DO YOU REMOVE OR REPLACE COMPLETE KLYSTRON OR TWT	5	2	1	4	29	31	52	67	54
P1055 P3-22 DO YOU REMOVE OR REPLACE KLYSTRON OR TWT COMPONENTS	4	1	1	1	4	0	10	21	0
P1056 P3-23 DO YOU INSPECT PARAMETRIC AMPLIFIERS	3	0	0	4	2	0	5	0	0
P1057 P3-24 DO YOU CLEAN PARAMETRIC AMPLIFIERS	3	0	0	3	2	0	1	0	0
P1058 P3-25 DO YOU ADJUST PARAMETRIC AMPLIFIERS	3	0	0	3	2	0	7	0	0

PCT MORS RESPONDING 'YES' BY DATEC GROUPS

GP800A PAGE 172

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	800	801	802	803	804	805	806	807	
P1088 P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON OUTPUT LEADS	4	1	1	2	11	0	13	19	8	
P1089 P3-56 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES FILAMENTS	3	1	0	2	4	0	6	8	8	
P1090 P3-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES CATHODES	3	1	0	3	4	0	6	8	8	
P1091 P3-58 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MODULATOR GRIDS	3	1	0	2	2	0	3	2	4	
P1092 P3-59 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES AMODES	3	1	0	3	2	0	4	4	8	
P1093 P3-60 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES HELIXES	3	1	0	3	2	0	2	2	0	
P1094 P3-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES COLLECTORS	3	1	0	2	2	0	3	6	4	
P1095 P3-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MAGNETS	3	0	0	2	0	0	3	6	0	
P1096 P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ATTENUATORS	3	1	0	3	0	0	5	8	4	
P1097 P3-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE CIRCULATORS	3	0	0	1	4	0	11	21	0	
P1098 P3-65 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL CAVITIES	3	0	0	2	4	0	3	2	4	
P1099 P3-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER TOLER CAVITIES	3	0	0	2	0	0	1	0	0	
P1100 P3-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR DIODES	3	0	0	2	4	0	3	2	0	
P1101 P3-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE ISOLATORS	3	0	0	1	7	0	12	4	31	
P1102 P3-69 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER REVERSE-BIAS BATTERIES	3	0	0	0	0	0	2	2	0	
P1103 P3-70 DO YOU PERFORM TASKS ON ANODE COOLING PINS	2	0	0	2	5	0	9	8	8	
P1104 P3-71 DO YOU PERFORM TASKS ON COUPLING LOOPS	2	0	0	1	5	0	5	4	4	
P1105 P3-72 DO YOU PERFORM TASKS ON HEATER LEADS	2	0	0	2	4	0	6	4	4	
P1106 P3-73 DO YOU PERFORM TASKS ON RESONANT CAVITIES	2	0	0	1	4	0	10	6	23	
P1107 P3-74 DO YOU PERFORM TASKS ON CATHODES	2	0	0	1	5	0	17	21	8	
P1108 P3-75 DO YOU PERFORM TASKS ON MAGNETS	2	0	0	2	4	0	11	10	15	
P1109 P3-76 DO YOU PERFORM TASKS ON STORAGE REGISTERS	2	0	0	2	7	0	19	21	4	
P1110 P3-77 DO YOU USE OR REFER TO SHIFT REGISTERS	12	0	0	32	49	0	8	2	0	
P1111 P3-78 DO YOU USE OR REFER TO LOGIC SYMBOLS OF SWIFT REGISTERS	15	0	1	32	49	0	8	2	0	
P1112 P3-79 DO YOU USE OR REFER TO LOGIC SYMBOLS OF STORAGE REGISTERS	14	0	0	27	38	0	7	0	4	
P1113 P3-80 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF SWIFT REGISTERS	12	0	0	27	38	0	7	0	4	
P1114 P3-81 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF REGISTERS	13	0	1	26	29	0	7	0	4	
P1115 P3-82 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF REGISTERS	14	1	1	24	27	8	9	2	4	

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	A00	A01	A02	A03	A04	A05	A06	A07
Q1116 Q1-07 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES HAVE PASSED	13	3	3	20	20	0	3	2	0
Q1117 Q2-01 DO YOU WORK WITH DIGITAL COUNTERS, REGISTERS, OR STORAGE DEVICES IN YOUR PRESENT JOB	21	10	6	37	33	0	17	8	19
Q1118 Q2-02 DO YOU USE OR REFER TO DELAY LINES	20	0	0	18	9	0	12	10	8
Q1119 Q2-03 DO YOU USE OR REFER TO MAGNETIC CORES	8	0	0	21	31	0	7	2	9
Q1120 Q2-04 DO YOU USE OR REFER TO MAGNETIC DRUMS	6	0	0	10	5	0	6	2	0
Q1121 Q2-05 DO YOU USE OR REFER TO MAGNETIC TAPES	17	0	0	31	13	0	5	2	9
Q1122 Q2-06 DO YOU USE OR REFER TO ACCESS TIME OR SPEED OR MEMORY SYSTEMS	9	0	1	20	27	0	5	9	0
Q1123 Q2-07 DO YOU USE OR REFER TO WORD CAPACITY OF MEMORY SYSTEMS	7	0	0	22	29	0	6	2	0
Q1124 Q2-08 DO YOU USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS	6	0	0	11	9	0	2	2	0
Q1125 Q2-09 DO YOU USE OR REFER TO LOGIC SYMBOL OF DELAY LINES	9	0	0	16	7	0	9	2	9
Q1126 Q3-01 IN YOUR PRESENT JOB, DO YOU WORK WITH DIGITAL-TO-ANALOG (D/A) CONVERTERS, ANALOG-TO-DIGITAL (A/D) CONVERTERS, OR BINARY-TO-DECIMAL READOUT CONVERTERS	9	1	0	34	33	0	11	2	0
Q1127 Q3-02 DO YOU COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS FOR GIVEN INPUT VOLTAGES	6	0	0	14	9	0	3	2	0
Q1128 Q3-03 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE COUNT IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS IS DETERMINED BY ADDING THE DENOMINATORS OF THE RESISTORS	6	0	0	10	9	0	3	2	0
Q1129 Q3-04 DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY COUNTS IN ELECTRONIC DIGITAL-TO-ANALOG (D/A) CONVERTERS	7	0	0	16	13	0	3	2	0
Q1130 Q3-05 DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	7	0	0	10	9	0	3	0	0
Q1131 Q3-06 DO YOU PERFORM HOLD FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	7	0	0	8	11	0	3	0	0
Q1132 Q3-07 DO YOU PERFORM COMPARE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	6	0	0	7	9	0	3	0	0
Q1131 Q3-08 DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	7	0	0	10	9	0	3	0	0
Q1134 Q3-09 DO YOU PERFORM DOWN-TIME REMEMBER WHICH FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	3	0	0	8	9	0	5	2	0
Q1135 Q3-10 DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/D CONVERTERS	7	0	0	12	9	0	2	0	0
Q1136 Q3-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D CONVERTERS	7	0	0	11	11	0	3	0	0
Q1137 Q3-12 DO YOU USE OR REFER TO COMPARE FUNCTION OF A/D CONVERTERS	7	0	0	9	11	0	3	0	0
Q1138 Q3-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D CONVERTERS	7	0	0	12	11	0	3	0	0
Q1139 Q3-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-DIGITAL (A/D) CONVERTERS	3	0	0	7	15	0	1	0	0

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

		DY-15K												
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		151	800	801	802	803	804	805	806	807	808	809	810	811
11210	12-25 DO YOU WORK WITH HALF SILVERED (923 REFLECTIVE)	1	1	1	7	0	0	1	2	0				
MIRRORS														
11211	12-26 DO YOU WORK WITH MELICAL FLASHTUBES	1	1	2	4	0	0	0	0	0				
11212	12-27 DO YOU WORK WITH RUBY	0	0	1	4	0	0	0	0	0				
11213	12-28 DO YOU WORK WITH HELIUM-NEON	1	1	1	8	0	0	0	0	0				
11214	12-29 DO YOU WORK WITH HELIUM-XENON	0	0	1	2	0	0	1	2	0				
11215	12-30 DO YOU WORK WITH XENON	0	0	0	2	0	0	1	2	0				
11216	12-31 DO YOU WORK WITH CESIUM-HELIUM	0	0	0	2	0	0	1	2	0				
11217	12-32 DO YOU WORK WITH ARGON	0	1	1	6	0	0	1	2	0				
11218	12-33 DO YOU WORK WITH NEODYMIUM IN GLASS	0	0	0	2	0	0	1	2	0				
11219	12-34 DO YOU WORK WITH GALLIUM ARSENIDE	0	0	0	3	0	0	1	2	0				
11220	13-01 IN YOUR PRESENT JOB DO YOU WORK WITH DISPLAY TUBES, SUCH AS DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE TUBES (MNST)	1	1	1	3	20	8	23	0	0				
CIRCUITS														
11221	13-02 DO YOU INSPECT DVST OR MNST	1	1	1	2	10	0	10	2	0				
11222	13-03 DO YOU CLEAN DVST OR MNST	1	1	1	2	15	0	13	2	0				
11223	13-04 DO YOU ADJUST OR CALIBRATE DVST OR MNST	1	1	1	2	11	0	18	2	0				
11224	13-05 DO YOU OPERATE SYSTEMS THAT CONTAIN DVST OR MNST	1	1	2	2	20	8	24	2	0				
11225	13-06 DO YOU TROUBLESHOOT DVST OR MNST	1	1	1	1	15	0	10	2	0				
MAJOR ASSEMBLIES OR UNITS														
11226	13-07 DO YOU REMOVE OR REPLACE DVST OR MNST TUBES FROM	1	1	0	1	11	0	10	2	0				
11227	13-08 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME THE VARIOUS ELEMENTS OF DVST	1	0	0	1	7	0	10	2	0				
11228	13-09 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME THE VARIOUS ELEMENTS OF MNST	1	0	0	0	4	0	7	2	0				
TASMS														
11229	13-10 DO YOU PERFORM TASKS ON FLOOD GUNS	0	0	0	1	7	0	10	2	0				
11230	13-11 DO YOU PERFORM TASKS ON WRITE GUNS	0	0	0	1	7	0	11	2	0				
11231	13-12 DO YOU PERFORM TASKS ON ATTACK GUNS	0	0	0	0	2	0	10	2	0				
11232	13-13 DO YOU PERFORM TASKS ON ERASE GUNS	0	0	0	1	7	0	11	2	0				
11233	13-14 DO YOU PERFORM TASKS ON STORAGE GRIDS	0	1	0	2	7	0	10	2	0				
11234	13-15 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING	3	0	1	23	31	0	8	0	8				
TASMS														
11235	13-02 DO YOU USE OR REFER TO DECIMAL SYSTEMS	2	0	0	20	27	0	4	0	0				
11236	13-03 DO YOU USE OR REFER TO PROGRAMS	1	0	0	22	25	0	4	0	0				
11237	13-04 DO YOU USE OR REFER TO HEXIDECIMAL SYSTEMS	1	0	0	6	24	0	0	0	0				
11238	13-05 DO YOU USE OR REFER TO 8-4-2-1 SYSTEMS	1	0	0	10	13	0	3	0	0				
11239	13-06 DO YOU USE OR REFER TO FOUR SYSTEMS	0	0	0	5	4	0	0	0	0				
11240	13-07 DO YOU USE OR REFER TO BINARY SYSTEMS	3	0	0	19	33	0	6	0	0				
11241	13-08 DO YOU USE OR REFER TO TIME-SHARING	2	0	0	12	7	0	4	0	0				
11242	13-09 DO YOU USE OR REFER TO DATA WORDS	2	0	0	19	22	0	6	0	0				
11243	13-10 DO YOU USE OR REFER TO ADDRESS WORDS	2	0	0	20	29	0	6	0	0				
11244	13-11 DO YOU USE OR REFER TO ADDRESS/SUBADDRESS	2	0	0	17	24	0	6	0	0				
11245	13-12 DO YOU USE OR REFER TO STEERING/INFORMATION	1	0	0	10	11	0	4	0	0				
11246	13-13 DO YOU USE OR REFER TO INFORMATION WORDS	1	0	0	17	20	0	5	0	0				
11247	13-14 DO YOU PERFORM TASKS ON SINGLE LEVEL PROGRAMMING	1	0	0	13	22	0	2	0	0				
11248	13-15 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING	1	0	0	8	11	0	1	0	0				

PCT MBRS RESPONDING 'YES' BY DAFSC GROUPS

GPBADA PAGE 177

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

TASK	DY-TSK												
	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
U1249 U1-16 DO YOU PERFORM TASKS ON INPUT DEVICES	1	0	0	1	16	22	0	4	0	0	0	0	0
U1250 U1-17 DO YOU PERFORM TASKS ON STORAGE DEVICES	0	0	0	0	14	24	0	4	0	0	0	0	0
U1251 U1-18 DO YOU PERFORM TASKS ON ARITHMETIC SECTIONS	0	0	0	0	11	22	0	3	0	0	0	0	0
U1252 U1-19 DO YOU PERFORM TASKS ON CONTROL SECTIONS	1	0	0	1	14	27	0	4	0	0	0	0	0
U1253 U1-20 DO YOU PERFORM TASKS ON OUTPUT DEVICES	2	0	0	0	14	27	0	4	0	0	0	0	0
U1254 U1-21 DO YOU PERFORM TASKS ON POWER SUPPLIES	2	0	0	0	11	29	0	4	0	0	0	0	0
U1255 U2-01 DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND ATTENUATION	55	1	2	48	36	15	43	62	27				
U1256 U2-02 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN DECIBELS	13	0	0	12	2	0	4	2	15				
U1257 U2-03 DO YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN DECIBELS	13	0	0	10	4	0	4	2	15				
U1258 U2-04 DUMMY TASK TO IDENTIFY INCUMBENTS WHO PERFORMED NO TASKS	3	7	3	1	2	15	0	0	0				

PCT MBRS RESPONDING 'YES' BY DAFSC GROUPS

GROUP PAGE 178

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TABULATION OF PERCENT MEMBERS RESPONDING 'YES' TO
QUESTIONS BY DAFSC GROUPS

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

GROUP IDENTITY =	SPC808	ALL AIRMEN DAFSC (SLICK) 32152	CONTAINING	8 MEMBERS.
GROUP IDENTITY =	SPC809	ALL AIRMEN DAFSC (SLICK) 32152	CONTAINING	8 MEMBERS.
GROUP IDENTITY =	SPC810	ALL AIRMEN DAFSC 32152A	CONTAINING	59 MEMBERS.
GROUP IDENTITY =	SPC811	ALL AIRMEN DAFSC 32950	CONTAINING	386 MEMBERS.
GROUP IDENTITY =	SPC824	ALL AIRMEN DAFSC 32950A	CONTAINING	42 MEMBERS.
GROUP IDENTITY =	SPC825	ALL AIRMEN DAFSC 32950B	CONTAINING	25 MEMBERS.
GROUP IDENTITY =	SPC826	ALL AIRMEN DAFSC 40850	CONTAINING	181 MEMBERS.
GROUP IDENTITY =	SPC827	ALL AIRMEN DAFSC 40851	CONTAINING	69 MEMBERS.
GROUP IDENTITY =	SPC828	ALL AIRMEN DAFSC 46250	CONTAINING	1205 MEMBERS.

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DDY-TSK

	DY-ISK	SPC 808	SPC 809	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 827	SPC 828
A 1 A1-01 IN YOUR PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS MULTIMETERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE VOLTAGE, RESISTANCE, ETC., BY POWERS OF 10.		100	100	81	89	88	64	51	32	50
A 2 A1-02 DO YOU USE PUBLICATIONS, SUCH AS TECHNICAL ORDERS OR MAINTENANCE MANUALS, IN WHICH IT IS NECESSARY FOR YOU TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN APPLY THE INFORMATION FROM THE PUBLICATION IN A USEFUL WAY ON THE JOB.		88	88	46	74	76	24	26	10	23
A 3 A1-03 DO YOU REARRANGE AND SOLVE FORMULAS OR EQUATIONS.		75	75	25	86	40	20	17	20	9
A 4 A1-04 DO YOU CALCULATE THE SQUARE ROOT OF A QUANTITY.		75	75	10	64	17	8	4	1	2
A 5 A1-05 DO YOU SOLVE FOR UNKNOWN QUANTITIES.		75	75	20	77	33	16	15	16	7
A 6 A1-06 DO YOU CONVERT NUMBERS TO LOGARITHMS.		63	63	5	42	10	4	2	1	1
A 7 A1-07 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF CALCULATIONS.		63	63	7	46	12	4	2	1	1
A 8 A1-08 DO YOU SOLVE QUADRATIC EQUATIONS.		38	38	14	27	7	4	3	1	1
A 9 A1-09 DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS.		50	50	7	17	7	4	3	1	1
A 10 A1-10 DO YOU PERFORM CALCULATIONS ON VECTOR QUANTITIES.		75	75	10	31	21	8	3	1	1
A 11 A1-11 DO YOU WORK WITH TRIGONOMETRIC FUNCTIONS, SUCH AS SINE, COSINE, OR TANGENT.		75	75	34	55	48	8	3	1	1
A 12 A1-12 DO YOU DETERMINE AREAS OF PLANE FIGURES.		13	13	8	19	10	8	13	10	2
A 13 A1-13 DO YOU SOLVE OR USE SIMULTANEOUS EQUATIONS.		63	63	10	23	10	4	4	2	2
A 14 A1-14 DO YOU SOLVE OR USE PROPORTIONS.		50	50	19	69	24	8	9	10	3
A 15 A2-01 DO YOU USE THE TERM VOLTAGE OR VOLT (V).		100	100	93	98	98	84	87	82	87
A 16 A2-02 DO YOU USE THE TERM ELECTROMOTIVE FORCE (EMF).		75	75	24	58	43	36	31	30	18
A 17 A2-03 DO YOU USE THE TERM OHM.		100	100	86	97	100	84	87	90	77
A 18 A2-04 DO YOU USE THE TERM ION.		75	75	14	26	29	0	14	3	4
A 19 A2-05 DO YOU USE THE TERM DYNE.		38	38	10	17	12	4	6	3	2
A 20 A2-06 DO YOU USE THE TERM AMPERE.		100	100	71	95	90	76	83	83	43
A 21 A2-07 DO YOU USE THE TERM NEUTRON.		75	75	15	22	24	8	13	4	5
A 22 A2-08 DO YOU USE THE TERM COULOMB.		75	75	10	20	26	4	7	4	2
A 23 A2-09 DO YOU USE THE TERM PROTOM.		75	75	15	22	26	8	12	7	3
A 24 A3-01 DO YOU WORK WITH RESISTORS IN YOUR PRESENT JOB.		100	100	59	87	88	68	73	77	37
A 25 A3-02 DO YOU INSPECT RESISTORS.		75	75	46	91	86	64	79	84	25
A 26 A3-03 DO YOU CLEAN RESISTORS.		25	25	24	77	64	28	56	49	13
A 27 A3-04 DO YOU ADJUST RESISTORS.		75	75	49	91	95	60	61	80	9
A 28 A3-05 DO YOU CHECK OHMIC VALUE OR RESISTORS.		100	100	56	95	88	68	77	87	32
A 29 A3-06 DO YOU REMOVE OR REPLACE RESISTORS.		13	13	29	92	81	64	77	81	27
A 30 A3-07 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTORS ON ANY TASKS YOU PERFORM.		38	38	17	48	48	24	22	19	4
A 31 A3-08 DO YOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED RESISTOR SYMBOLS OR TAPPED RESISTOR SYMBOLS.		100	100	54	94	86	66	62	62	15
A 32 A3-09 DO YOU IDENTIFY OR CLASSIFY THE RESISTORS YOU WORK WITH AS CARBON, FIXED WIRE, SLIDE TAP, RHEOSTAT, OR POTENTIOMETER.		88	88	51	94	88	60	65	65	12
A 33 A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC VALUE OR RESISTANCE.		88	88	42	94	83	60	74	80	18

TASK	GROUP SUMMARY	PERCENT MEMBERS PERFORMING
1. Identify the problem	100%	100%
2. Generate ideas	100%	100%
3. Evaluate ideas	100%	100%
4. Select a solution	100%	100%
5. Implement the solution	100%	100%
6. Evaluate the results	100%	100%

0Y-TSK

DT-15K	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828
A 34 A3-11 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE TOLERANCE.	75	75	31	92	74	64	65	68	19
A 35 A3-12 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE FAILURE RATE.	63	63	7	19	19	4	19	22	7
A 36 A3-13 DO YOU MAKE DECISIONS IN WHICH YOU MUST DETERMINE HOW TWO OR MORE BATTERIES MUST BE CONNECTED TOGETHER TO ACHIEVE A SPECIFIC VOLTAGE.	75	75	15	67	31	16	37	25	5
A 37 A3-14 DO YOU USE OR REFER TO THE SCHEMATIC SYMBOLS WHICH REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SWITCHES	100	100	64	95	90	60	83	84	30
A 38 A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES RESISTIVE CIRCUITS.	75	75	41	82	57	44	42	38	16
A 39 A3-16 DO YOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE CIRCUITS.	75	75	27	70	60	36	41	35	16
A 40 A3-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES RESISTIVE CIRCUITS.	88	88	34	75	57	40	38	36	13
A 41 A3-18 DO YOU CALCULATE POWER DISSIPATION FOR SERIES RESISTIVE CIRCUITS.	63	63	25	60	50	36	30	26	12
A 42 A3-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES PARALLEL RESISTIVE CIRCUITS.	75	75	37	76	57	40	39	33	14
A 43 A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES PARALLEL RESISTIVE CIRCUITS.	75	75	25	65	55	40	36	35	14
A 44 A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES PARALLEL RESISTIVE CIRCUITS.	88	88	36	69	57	40	37	33	12
A 45 A3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR SERIES PARALLEL RESISTIVE CIRCUITS.	75	75	22	61	48	40	34	29	11
A 46 A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES PARALLEL RESISTIVE CIRCUITS.	63	63	24	54	50	36	29	28	10
A 47 A3-24 DO YOU CALCULATE TOTAL RESISTANCE FOR PARALLEL RESISTIVE CIRCUITS.	75	75	37	76	55	44	35	28	12
A 48 A3-25 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE CIRCUITS.	75	75	27	64	55	40	34	26	12
A 49 A3-26 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR PARALLEL RESISTIVE CIRCUITS.	88	88	36	68	52	40	33	26	11
A 50 A3-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR PARALLEL RESISTIVE CIRCUITS.	75	75	27	61	48	40	29	25	10
A 51 A3-28 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL RESISTIVE CIRCUITS.	63	63	24	54	45	36	24	22	9
B 52 B1-01 DO YOU MEASURE RESISTANCE.	100	100	88	95	90	64	91	87	61
B 53 B1-02 DO YOU REPAIR OHMMETERS.	0	0	5	61	7	0	7	1	4
B 54 B1-03 DO YOU MEASURE VOLTAGE.	100	100	90	96	95	80	92	88	82
B 55 B1-04 DO YOU REPAIR VOLTMETERS.	13	13	5	61	7	0	2	1	4
B 56 B1-05 DO YOU REPAIR AMPMETERS.	0	0	5	58	5	0	2	0	3
B 57 B1-06 DO YOU MEASURE CURRENT.	100	100	76	87	83	68	77	70	57
B 58 B1-07 DO YOU USE MULTIMETERS.	100	100	92	94	98	76	91	91	80
B 59 B1-08 DO YOU DIRECTLY USE A QUANTITY OF CHARGE CALLED A COULOMB.	13	13	5	7	5	0	5	0	2
B 60 B1-09 DO YOU READ SCHEMATICS.	88	88	86	95	95	88	96	91	58

PCT MBRS RESPONDING 'YES' BY DAESC GROUPS

68008 PAGE 182

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-15K

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828	
C 92 CI-01 DO YOU WORK WITH CAPACITORS OR CIRCUITS CONTAINING CAPACITORS IN YOUR PRESENT JOB.	63	63	42	90	76	69	66	62	7	
C 93 CI-02 DO YOU INSPECT CAPACITORS.	25	25	15	72	48	20	41	32	4	
C 94 CI-03 DO YOU CLEAN CAPACITORS.	50	50	41	92	43	24	17	17	2	
C 95 CI-04 DO YOU ADJUST CAPACITORS.	75	75	22	90	67	69	65	55	6	
C 96 CI-05 DO YOU TEST CAPACITORS.	75	75	49	84	67	40	69	39	3	
C 97 CI-06 DO YOU DISCHARGE CAPACITORS.	13	13	25	91	69	64	71	59	7	
C 98 CI-07 DO YOU REMOVE OR REPLACE CAPACITORS.	63	63	14	32	21	4	9	9	1	
C 99 CI-08 DO YOU USE OR REFER TO DISTRIBUTED CAPACITANCE.	50	50	7	5	7	0	2	1	1	
C 100 CI-09 DO YOU USE OR REFER TO ORBITAL STRESS OF ELECTROMS IN A DIELECTRIC.	75	75	29	92	67	60	36	42	2	
C 101 CI-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR PICOFARADS.	75	75	37	92	67	60	44	45	4	
C 102 CI-11 DO YOU USE OR REFER TO CAPACITANCE.	63	63	8	30	10	8	4	3	1	
C 103 CI-12 DO YOU USE OR REFER TO DIELECTRIC CONSTANT	88	88	14	85	43	48	38	26	4	
C 104 CI-13 DO YOU USE OR REFER TO WORKING VOLTAGE RATING OF CAPACITORS.	88	88	15	53	43	20	23	28	3	
C 105 CI-14 DO YOU USE OR REFER TO CAPACITIVE REACTANCE	50	50	10	61	26	28	25	22	4	
C 106 CI-15 DO YOU USE OR REFER TO CAPACITOR COLOR CODES	88	88	61	90	74	68	61	54	9	
C 107 CI-16 DO YOU WORK WITH CAPACITORS IN DC CIRCUITS	88	88	56	95	74	64	69	52	9	
C 108 CI-17 DO YOU WORK WITH CAPACITORS IN AC CIRCUITS	88	88	58	92	74	64	50	48	8	
C 109 CI-18 DO YOU WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC AND AC	13	13	10	10	36	8	18	10	3	
C 110 CI-19 DO YOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH CIRCUITS	63	63	7	27	19	8	9	9	1	
C 111 CI-20 DO YOU CALCULATE CAPACITANCE FOR PARTICULAR CAPACITORS USING FORMULAS	63	63	8	16	10	0	4	3	1	
C 112 CI-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE DIELECTRIC CONSTANT	75	75	7	19	12	4	4	7	1	
C 113 CI-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL TO THE DIELECTRIC THICKNESS	63	63	8	54	29	20	15	14	2	
C 114 CI-23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES	75	75	7	55	29	20	14	14	2	
C 115 CI-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN PARALLEL	63	63	7	45	29	20	13	12	2	
C 116 CI-25 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES-PARALLEL CIRCUITS	88	88	14	48	33	16	13	13	1	
C 117 CI-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT DOES NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS TO DO SO	75	75	14	33	31	16	16	20	2	
C 118 CI-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN AC CAPACITOR CIRCUITS	75	75	7	46	21	12	4	13	1	
C 119 CI-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO FREQUENCY	63	63	8	32	24	8	10	13	1	
C 120 CI-29 DO YOU CALCULATE CAPACITIVE REACTANCE	63	63	8	32	24	8	10	13	1	

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

0Y-15K

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828
C 121 C1-30 DO YOU WORK WITH ROTOR-STATOR (VARIABLE) CAPACITORS	75	25	29	85	31	16	18	7	2
C 122 C1-31 DO YOU WORK WITH COMPRESSION (TRIMMER) CAPACITORS	25	25	17	88	24	24	10	3	1
C 123 C1-32 DO YOU WORK WITH ELECTROLYTIC (FIXED) CAPACITORS	63	63	34	92	62	60	48	36	4
C 124 C1-33 DO YOU WORK WITH PAPER (FIXED) CAPACITORS	58	38	22	91	50	60	38	23	2
C 125 C1-34 DO YOU WORK WITH MICA (FIXED) CAPACITORS	50	50	31	91	57	64	33	32	3
C 126 C1-35 DO YOU WORK WITH CERAMIC (FIXED) CAPACITORS	63	63	37	92	57	56	44	41	4
C 127 C1-36 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF CAPACITORS	38	38	19	8	38	8	26	12	4
C 128 C2-01 DO YOU WORK WITH TRANSFORMERS IN YOUR PRESENT JOB	75	75	42	83	64	56	51	14	6
C 129 C2-02 DO YOU INSPECT TRANSFORMERS	63	63	37	81	67	60	52	19	5
C 130 C2-03 DO YOU CLEAN TRANSFORMERS	13	13	15	53	31	32	43	14	2
C 131 C2-04 DO YOU ADJUST TRANSFORMERS	50	50	20	49	24	20	24	3	2
C 132 C2-05 DO YOU TROUBLESHOOT TRANSFORMERS	75	75	41	77	62	52	43	17	4
C 133 C2-06 DO YOU REMOVE OR REPLACE COMPLETE TRANSFORMERS	25	25	32	81	62	64	52	19	5
C 134 C2-07 DO YOU REMOVE OR REPLACE TRANSFORMER PARTS, SUCH AS THE PRIMARY WINDING	0	0	3	11	2	0	9	1	1
C 135 C2-08 DO YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTION AND MUTUAL INDUCTANCE (M)	63	63	5	8	5	0	4	0	0
C 136 C2-09 DO YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, M	25	25	5	9	2	0	9	0	0
C 137 C2-10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING WHEN WORKING WITH TRANSFORMERS	75	75	7	16	7	8	6	0	0
C 138 C2-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING CURRENT OR VOLTAGE RATIOS	75	75	10	28	24	12	8	3	1
C 139 C2-12 DO YOU REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH TRANSFORMERS	50	50	7	19	10	0	4	0	1
C 140 C2-13 DO YOU CALCULATE IMPEDANCE INTERACTIONS FOR TRANSFORMERS	63	63	5	10	5	0	3	0	1
C 141 C2-14 DO YOU WORK WITH AUTOTRANSFORMERS	63	63	15	75	17	16	15	3	1
C 142 C2-15 DO YOU WORK WITH POWER TRANSFORMERS	63	63	36	79	62	84	48	14	5
C 143 C2-16 DO YOU WORK WITH AUDIO TRANSFORMERS	75	75	19	68	19	8	12	1	1
C 144 C2-17 DO YOU WORK WITH RADIO FREQUENCY TRANSFORMERS	75	75	22	63	19	12	3	0	0
C 145 C2-18 DO YOU WORK WITH DON'T REMEMBER WHAT TYPE OF TRANSFORMERS	38	38	12	10	21	8	22	9	2
C 146 C2-19 DO YOU CHECK TRANSFORMERS FOR OPEN WINDINGS BY MEASURING RESISTANCE	63	63	34	81	62	56	45	13	3
C 147 C2-20 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING RESISTANCE	63	63	31	74	62	52	45	12	3
C 148 C2-21 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING OUTPUT VOLTAGES	75	75	27	73	57	28	40	12	3
C 149 C2-22 DO YOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN TURNS RATIO	38	38	15	31	21	16	17	3	2
C 150 C2-23 DO YOU MEASURE OUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER WAS A STEP-UP OR STEP-DOWN TURNS RATIO	50	50	19	51	33	24	26	7	2
C 151 C2-24 DO YOU REFER TO BASIC TRANSFORMER SCHEMATIC SYMBOLS FOR TRANSFORMERS	88	88	41	84	64	64	47	17	4

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

NY-15K

	DY-ISK	SFC R08	SPC R09	SFC A10	SFC A11	SFC A26	SFC A27	SFC A28
C 179 C3-09 DO YOU USE OR REFER TO DOMAIN THEORY OF MAGNETISM		0	0	7	8	0	0	0
C 180 C3-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION		75	75	15	22	17	16	0
C 181 C3-11 DO YOU USE OR REFER TO FLUX DENSITY		63	63	10	17	18	8	1
C 182 C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT		75	75	29	51	33	36	17
C 183 C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES		75	75	12	20	19	20	7
C 184 C3-14 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE NORTH POLE OF A CURRENT CARRYING COIL		75	75	12	17	19	16	7
D 185 D1-01 DO YOU WORK WITH RCL, LR, RCL CIRCUITS IN YOUR PRESENT JOB		88	88	20	66	40	28	12
D 186 D1-02 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH RCL CIRCUITS		63	63	8	19	10	12	3
D 187 D1-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORKING WITH RCL CIRCUITS		50	50	7	15	12	8	2
D 188 D1-04 DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL CIRCUITS		63	63	15	25	36	0	3
D 189 D1-05 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL CIRCUITS		63	63	15	25	36	0	3
D 190 D1-06 DO YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS		50	50	10	23	31	9	2
D 191 D1-07 DO YOU USE OR REFER TO WATTS WHEN WORKING WITH RCL CIRCUITS		88	88	17	95	36	16	8
D 192 D1-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING WITH RCL CIRCUITS		38	38	19	32	17	8	3
D 193 D1-09 DO YOU USE OR REFER TO MAXIMUM POWER (PM) WHEN WORKING WITH RCL CIRCUITS		38	38	15	39	26	8	9
D 194 D1-10 DO YOU USE OR REFER TO AVERAGE POWER (PAVE) WHEN WORKING WITH RCL CIRCUITS		50	50	17	37	26	12	9
D 195 D1-11 DO YOU USE OR REFER TO APPARENT POWER (PA) WHEN WORKING WITH RCL CIRCUITS		25	25	12	29	10	8	3
D 196 D1-12 DO YOU USE OR REFER TO POWER FACTOR (PF) WHEN WORKING WITH RCL CIRCUITS		25	25	10	30	12	9	3
D 197 D1-13 DO YOU USE OR REFER TO RESONANT CIRCUITS WHEN WORKING WITH RCL CIRCUITS		75	75	10	56	29	16	5
D 198 D1-14 DO YOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH RCL CIRCUITS		88	88	19	63	33	12	3
D 199 D1-15 DO YOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH RCL CIRCUITS		88	88	15	53	31	8	5
D 200 D1-16 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH RCL CIRCUITS		75	75	19	61	33	8	9
D 201 D1-17 DO YOU USE OR REFER TO HALF POWER POINTS WHEN WORKING WITH RCL CIRCUITS		63	63	10	49	19	0	2
D 202 D1-18 DO YOU USE OR REFER TO BANDPASS REGION WHEN WORKING WITH RCL CIRCUITS		75	75	19	57	31	8	2
D 203 D1-19 DO YOU USE OR REFER TO CIRCUIT Q WHEN WORKING WITH RCL CIRCUITS		63	63	8	29	19	0	2

TASK	GROUP SUMMARY	PERCENT MEMBERS PERFORMING
1. Identify the problem	100%	100%
2. Generate ideas	100%	100%
3. Evaluate ideas	100%	100%
4. Implement the solution	100%	100%
5. Review the solution	100%	100%

QY-15K

[illegible]

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	DI-15K	SPC 808	SPC 809	SPC 810	SPC 811	SPC 828	SPC 825	SPC 826	SPC 827	SPC 828
E 291 E2-19 DO YOU MAKE HARDWARE CONNECTIONS	63	63	63	63	87	86	64	75	62	24
E 292 E2-20 DO YOU MAKE PRINTED CIRCUIT BOARD CONNECTIONS	63	63	63	63	91	79	64	69	71	9
E 293 E2-21 DO YOU SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS OR CAPACITORS ON PRINTED CIRCUIT BOARDS	50	50	50	19	91	71	64	64	71	9
E 294 E2-22 DO YOU SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE DIODES OR TRANSISTORS ON PRINTED CIRCUIT BOARDS	38	38	18	90	69	64	61	70	7	
E 295 E3-01 DO YOU WORK WITH RELAYS ON YOUR PRESENT JOB	100	100	68	72	71	72	73	68	30	
E 296 E3-02 DO YOU ADJUST RELAYS	25	25	20	46	33	20	59	26	7	
E 297 E3-03 DO YOU CLEAN RELAYS	13	13	17	62	43	56	71	42	10	
E 298 E3-04 DO YOU INSPECT RELAYS	63	63	46	69	71	48	75	59	21	
E 299 E3-05 DO YOU REMOVE OR REPLACE COMPLETE RELAYS	38	38	37	71	62	64	73	68	29	
E 300 E3-06 DO YOU REMOVE OR REPLACE PARTS OR RELAYS	25	25	10	26	17	20	40	19	6	
E 301 E3-07 DO YOU TROUBLESHOOT RELAYS	63	63	69	67	71	66	69	62	28	
E 302 E3-08 DO YOU STRAIGHTEN RELAY CONTACTS	13	13	20	56	40	16	66	38	9	
E 303 E3-09 DO YOU PERFORM TASKS ON RELAY CONTACTS	38	38	12	59	31	29	69	35	9	
E 304 E3-10 DO YOU PERFORM TASKS ON RELAY COILS	25	25	5	16	5	21	9	1	1	
E 305 E3-11 DO YOU PERFORM TASKS ON RELAY COILS	38	38	8	22	5	4	27	13	2	
E 306 E3-12 DO YOU PERFORM TASKS ON RELAY ARMATURES	25	25	5	23	10	9	31	13	2	
E 307 E3-13 DO YOU PERFORM TASKS ON RELAY SPRINGS	25	25	5	36	17	0	59	16	3	
E 308 E3-14 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY OPEN (NO) SCHEMATIC SYMBOLS FOR RELAYS	100	100	54	60	79	64	58	51	18	
E 309 E3-15 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY CLOSED (NC) SCHEMATIC SYMBOLS FOR RELAYS	100	100	54	60	79	64	57	51	17	
E 310 E3-16 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW (SPDT) SCHEMATIC SYMBOLS FOR RELAYS	68	68	51	60	79	56	55	48	16	
E 311 E3-17 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (DPDT) SCHEMATIC SYMBOLS FOR RELAYS	68	68	53	59	79	56	55	51	16	
E 312 E3-18 DO YOU USE OR REFER TO OTHER RELAY SYMBOLS SCHEMATIC SYMBOLS FOR RELAYS	68	68	58	54	74	52	46	42	16	
E 313 E3-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY MEASURING RESISTANCE	75	75	63	64	62	60	51	38	15	
F 314 F1-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH MICROPHONES	25	25	7	11	2	4	4	0	13	
F 315 F1-02 DO YOU INSPECT MICROPHONES	13	13	3	9	2	4	4	0	4	
F 316 F1-03 DO YOU CLEAN MICROPHONES	0	0	2	6	2	4	4	0	3	
F 317 F1-04 DO YOU OPERATE MICROPHONES	25	25	7	12	2	4	4	0	16	
F 318 F1-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT PARTS OR MICROPHONES	13	13	5	8	2	4	4	0	6	
F 319 F1-06 DO YOU TROUBLESHOOT DOWN TO MICROPHONE PARTS	13	13	2	4	0	0	2	0	1	
F 320 F1-07 DO YOU REMOVE OR REPLACE COMPLETE MICROPHONES	0	0	3	9	2	4	3	0	4	
F 321 F1-08 DO YOU REMOVE OR REPLACE MICROPHONE PARTS	13	13	2	4	0	0	2	0	1	
F 322 F1-09 DO YOU PERFORM TASKS ON CARBON MICROPHONES	13	13	2	5	0	0	2	0	1	
F 323 F1-10 DO YOU PERFORM TASKS ON CAPACITOR MICROPHONES	13	13	2	4	0	0	2	0	1	
F 324 F1-11 DO YOU PERFORM TASKS ON CRYSTAL MICROPHONES	13	13	2	5	0	0	2	0	1	
F 325 F1-12 DO YOU PERFORM TASKS ON DYNAMIC MICROPHONES	0	0	2	7	2	0	3	0	2	
F 326 F1-13 DO YOU PERFORM TASKS ON VELOCITY RIBBON MICROPHONES	0	0	2	2	0	0	1	0	1	

PCT MBRS RESPONDING 'YES' BY DAESC GROUPS

GPBDR PAGE 190

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-15K

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828	828
F 327 F2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH SPEAKERS	30	30	7	17	2	4	29	0	4	
F 328 F2-02 DO YOU INSPECT SPEAKERS	25	25	3	14	2	4	30	0	1	
F 329 F2-03 DO YOU CLEAN SPEAKERS	13	13	2	10	2	4	27	0	1	
F 330 F2-04 DO YOU OPERATE SPEAKERS	50	50	1	16	2	4	28	0	4	
F 331 F2-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT PARTS OF SPEAKERS	25	25	7	14	2	0	29	0	2	
F 332 F2-06 DO YOU TROUBLESHOOT DOWN TO SPEAKER PARTS	25	25	2	3	0	0	13	0	0	
F 333 F2-07 DO YOU REMOVE OR REPLACE COMPLETE SPEAKERS	0	0	3	14	2	0	25	0	1	
F 334 F2-08 DO YOU REMOVE OR REPLACE SPEAKER PARTS	0	0	2	2	0	0	9	0	1	
F 335 F2-09 DO YOU PERFORM ANY TASKS ON SPEAKER CONES	13	13	2	2	0	0	7	0	1	
F 336 F2-10 DO YOU PERFORM ANY TASKS ON SPEAKER SPIGOTS	0	0	2	1	0	0	2	0	0	
F 337 F2-11 DO YOU PERFORM ANY TASKS ON SPEAKER FIELD COILS	25	25	2	1	0	0	3	0	0	
F 338 F2-12 DO YOU PERFORM ANY TASKS ON SPEAKER VOICE COILS	25	25	2	2	0	0	3	0	0	
F 339 F2-13 DO YOU PERFORM ANY TASKS ON SPEAKER PERMANENT MAGNETS	13	13	3	2	0	4	4	0	0	
F 340 F2-14 DO YOU PERFORM ANY TASKS ON SPEAKER ELECTROMAGNETS	13	13	3	2	0	0	3	0	0	
F 341 F2-15 DO YOU PERFORM ANY TASKS ON SPEAKER SOFT IRON CORES	13	13	3	1	0	0	3	0	0	
F 342 F3-01 DO YOU USE OSCILLOSCOPES IN YOUR PRESENT JOB	88	88	86	89	93	68	28	20	4	
F 343 F3-02 DO YOU USE OSCILLOSCOPES TO PERFORM OPERATIONAL CHECKS	100	100	85	89	90	64	24	23	4	
F 344 F3-03 DO YOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR ADJUSTMENTS	100	100	85	88	88	60	20	22	3	
F 345 F3-04 DO YOU USE OSCILLOSCOPES TO TROUBLESHOOT ELECTRONIC CIRCUITS	100	100	85	88	83	60	25	22	4	
F 346 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY	100	100	80	83	90	56	19	20	3	
F 347 F3-06 DO YOU USE OSCILLOSCOPES TO MEASURE TIME	88	88	69	83	90	60	13	16	3	
F 348 F3-07 DO YOU USE OSCILLOSCOPES TO OBSERVE LISAIOUS PATTERNS	25	25	56	69	29	16	10	6	2	
F 349 F3-08 DO YOU USE OSCILLOSCOPES TO OBSERVE SIGNALS WHILE UTILIZING ATTENUATOR PROBES	63	63	80	88	86	60	15	7	3	
F 350 F3-09 DO YOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME MEASUREMENTS USING DELAY TIME MULTIPLIERS	30	30	41	71	79	44	9	4	2	
F 351 F3-10 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE	88	88	88	89	86	56	24	19	4	
F 352 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE OR OBSERVE SIGNALS AFTER FIRST ADJUSTING THE GAIN AND DC BAL CONTROLS	88	88	76	87	79	32	14	9	2	
F 353 F3-12 DO YOU USE OSCILLOSCOPES TO MEASURE DC VOLTAGE	88	88	88	83	90	52	23	19	4	
F 354 G1-01 DO YOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT JOB	63	63	32	91	74	64	45	66	7	
G 355 G1-02 DO YOU INSPECT DIODES	50	50	27	89	64	56	43	68	6	
G 356 G1-03 DO YOU REMOVE OR REPLACE DIODES	13	13	15	89	71	64	44	67	6	
G 357 G1-04 DO YOU CHECK DIODES USING AN INSTRUMENT	63	63	29	89	67	64	40	72	6	
G 358 G1-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH DIODES	30	30	8	14	14	0	4	3	1	
G 359 G1-06 DO YOU USE PM JUNCTION DIODE CHARACTERISTIC CURVES, TOGETHER WITH VALUES OF FORWARD AND REVERSE BIAS VOLTAGE, TO COMPUTE FORWARD OR REVERSE LIAS RESISTANCE	50	50	10	19	14	0	10	7	1	
G 360 G1-07 DO YOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR DIODES	63	63	12	30	21	12	14	14	2	

TASK	GROUP SUMMARY
PERCENT MEMBERS PERFORMING	

DY-ISK		SPC 808	SPC 809	SPC 810	SPC 811	SPC 828	SPC 829	SPC 825	SPC 826	SPC 827	SPC 828
6 383	61-30 DO YOU USE OR REFER TO FORBIDDEN BAND IN SEMICONDUCTOR MATERIALS	63	63	3	4	12	0	6	0	0	0
6 384	61-31 DO YOU USE OR REFER TO CONDUCTION BAND IN SEMICONDUCTOR MATERIALS	63	63	3	7	19	0	6	1	0	0
6 385	61-32 DO YOU USE OR REFER TO COVALENT BONDING IN SEMICONDUCTOR MATERIALS	50	50	3	5	12	0	6	0	0	0
6 386	61-33 DO YOU USE OR REFER TO ELECTRON-HOLE PAIR CREATED IN SEMICONDUCTORS	63	63	3	5	19	0	5	1	0	0
6 387	61-34 DO YOU USE OR REFER TO ELECTRON FLOW OR HOLE FLOW IN SEMICONDUCTORS	63	63	10	15	29	4	7	4	1	1
6 388	61-35 DO YOU USE OR REFER TO DONOR IMPURITY IN SEMICONDUCTORS	63	63	3	6	12	4	6	0	0	0
6 389	61-36 DO YOU USE OR REFER TO ACCEPTOR IMPURITY IN SEMICONDUCTORS	63	63	3	6	12	4	7	0	0	0
6 390	61-37 DO YOU USE OR REFER TO P-TYPE SEMICONDUCTOR MATERIAL	75	75	7	34	33	20	16	10	1	1
6 391	61-38 DO YOU USE OR REFER TO N-TYPE SEMICONDUCTOR MATERIAL	75	75	7	33	33	16	15	10	1	1
6 392	61-39 DO YOU USE OR REFER TO MAJORITY CARRIERS IN SEMICONDUCTORS	63	63	3	10	19	4	6	0	1	1
6 393	61-40 DO YOU USE OR REFER TO MINORITY CARRIERS IN SEMICONDUCTORS	63	63	3	10	19	4	6	0	1	1
6 394	61-41 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN SEMICONDUCTORS	63	63	3	8	19	0	5	0	0	0
6 395	61-42 DO YOU USE OR REFER TO DEPLETION REGION IN SEMICONDUCTORS	63	63	3	9	17	4	6	0	0	0
6 396	61-43 DO YOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER WIDTH AND DIFFERENCE OF POTENTIAL	63	63	3	9	12	4	6	1	1	1
6 397	61-44 DO YOU USE OR REFER TO THE 10:1 BACK TO FRONT RESISTANCE RATIO FOR DIODES	50	50	15	88	31	16	12	20	1	1
6 398	61-45 DO YOU USE OR REFER TO BARRIER HEIGHT IN SEMICONDUCTORS	63	63	3	9	7	4	4	1	0	0
6 399	61-46 DO YOU USE OR REFER TO DIODE SUBSTITUTION INFORMATION	25	25	7	77	33	24	18	23	1	1
6 400	61-47 DO YOU USE OR REFER TO MAXIMUM AVERAGE FORWARD CURRENT DIODE RATINGS	50	50	5	47	24	16	11	4	1	1
6 401	61-48 DO YOU USE OR REFER TO PEAK RECURRENT FORWARD CURRENT DIODE RATINGS	50	50	5	37	24	12	9	3	1	1
6 402	61-49 DO YOU USE OR REFER TO MAXIMUM SURGE CURRENT DIODE RATINGS	38	38	3	45	24	8	10	6	1	1
6 403	61-50 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE DIODE RATINGS	75	75	3	56	24	8	10	7	1	1
6 404	62-01 DO YOU WORK WITH TRANSISTORS IN YOUR PRESENT JOB.	88	88	32	90	69	60	50	48	5	5
6 405	62-02 DO YOU INSPECT TRANSISTORS	63	63	22	87	71	56	48	46	4	4
6 406	62-03 DO YOU REMOVE OR REPLACE TRANSISTORS	13	13	10	88	64	68	47	46	4	4
6 407	62-04 DO YOU CHECK TRANSISTORS USING AN INSTRUMENT	75	75	24	89	64	68	45	45	4	4
6 408	62-05 DO YOU USE OR REFER TO EMITTER - BASE (EB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS	88	88	17	87	67	72	39	38	3	3
6 409	62-06 DO YOU USE OR REFER TO COLLECTOR - BASE (CB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS	75	75	17	86	69	68	34	35	3	3

TASK	GROUP	SUMMARY
PERCENT	MEMBERS	PERFORMING

DIY-ISM

	DI-1SK	SPC 808	SPC 809	SPC 810	SPC 811	SPC 82A	SPC 82S	SPC 826	SPC 827	SPC 828
6 410 62-07 DO YOU USE OR REFER TO EMITTER - COLLECTOR (EC1)	75	75	15	AS	69	6A	3A	33	3	
RESISTANCE MEASUREMENTS										
6 411 62-08 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE EMITTER - BASE JUNCTION	75	75	10	25	38	2A	1A	A	1	
6 412 62-09 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE COLLECTOR - BASE JUNCTION	63	63	10	25	36	2A	1A	A	1	
6 413 62-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE TRANSISTOR STRUCTURE (COLLECTOR, BASE AND EMITTER)	75	75	10	59	48	40	28	1A	2	
6 414 62-11 DO YOU USE OR REFER TO LEAKAGE CURRENT (ICBO) IN A TRANSISTOR	63	63	7	32	26	8	17	6	1	
6 415 62-12 DO YOU USE OR REFER TO TRANSISTOR SCHEMATIC SYMBOLS	88	88	27	91	7A	6A	4A	46	5	
6 416 62-13 DO YOU USE OR REFER TO TRANSISTOR NOTATION SUCH AS 01, Q2, Q3, ETC	88	88	2A	91	76	68	45	43	3	
6 417 62-14 DO YOU USE OR REFER TO TRANSISTOR SUBSTITUTION INFORMATION	38	38	8	83	45	32	28	23	1	
6 418 62-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE TRANSISTOR BASE CURRENT IB IS NORMALLY SIGNIFICANTLY SMALLER THAN THE EMITTER CURRENT IE (USUALLY IB BEING 2 TO 8 PERCENT OF IE)	63	63	10	38	31	20	17	10	1	
6 419 62-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF EMITTER BASE VOLTAGE ON BASE CURRENT IS THE CONTROLLING FACTOR FOR TRANSISTORS	88	88	10	53	48	32	18	16	2	
6 420 62-17 DO YOU USE THE GENERAL RULE THAT LEAKAGE CURRENT (ICBO) IN A TRANSISTOR INCREASES AS TEMPERATURE INCREASES	75	75	5	28	2A	2A	15	3	1	
6 421 62-18 DO YOU USE OR REFER TO TRANSISTOR CHARACTERISTIC CURVES	63	63	3	49	17	12	9	1	1	
6 422 62-19 DO YOU USE OR REFER TO BETA TRANSISTOR GAINS	63	63	7	21	21	8	6	1	1	
6 423 62-20 DO YOU USE OR REFER TO ALPHA TRANSISTOR GAINS	63	63	5	17	21	A	6	1	1	
6 424 62-21 DO YOU USE OR REFER TO GAMMA TRANSISTOR GAINS	63	63	5	13	19	A	6	1	1	
6 425 62-22 DO YOU CALCULATE BETA TRANSISTOR GAINS	63	63	3	10	12	A	A	0	1	
6 426 62-23 DO YOU CALCULATE ALPHA TRANSISTOR GAINS	63	63	3	8	12	A	A	0	1	
6 427 62-24 DO YOU CALCULATE GAMMA TRANSISTOR GAINS	50	50	3	6	12	A	A	0	1	
6 428 63-01 DO YOU WORK WITH TRANSISTOR AMPLIFIERS IN YOUR PRESENT JOB	88	88	29	78	50	48	18	A	1	
6 429 63-02 DO YOU INSPECT TRANSISTOR AMPLIFIERS	38	38	17	76	50	40	18	3	1	
6 430 63-03 DO YOU ALIGN OR ADJUST TRANSISTOR AMPLIFIERS	25	25	2A	73	38	28	10	3	0	
6 431 63-04 DO YOU TROUBLESHOOT TO THE AMPLIFIER CIRCUIT LEVEL	50	50	25	77	55	48	15	A	1	
6 432 63-05 DO YOU REMOVE OR REPLACE THE COMPLETE AMPLIFIER	38	38	1A	76	45	32	16	A	1	
6 433 63-06 DO YOU REMOVE OR REPLACE THE COMPLETE AMPLIFIER	13	13	19	67	50	4A	17	A	1	
6 434 63-07 DO YOU REMOVE OR REPLACE AMPLIFIER COMPONENTS	0	0	8	75	38	36	16	A	1	
6 435 63-08 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A CHANGE IN BASE CURRENT	75	75	10	42	31	16	7	0	1	
6 436 63-09 DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A SPECIFIC CHANGE IN BASE CURRENT	63	63	5	17	1A	12	A	0	0	

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

BY-ISM

SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
000	009	010	011	024	025	026	027

6437	63-10	DO YOU USE OR REFER TO (COMMON ENITTER) THE CHANGE IN	75	75	7	41	26	20	6	0	0
COLLECTED INFORMATION FROM A CHANGE IN AGE											

CURRENT

[illegible]

COLLECTOR VOLTAGE WHICH RESULTS FROM A SPECIFIC CHANGE IN
BASE CURRENT

6	439	63-12	DO YOU USE OR REFER TO (COMMON ENITTER) THE CHANGE IN	75	75	8	37	29	20	6	0	0
BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL												

6 440 63-13 DO YOU USE OR REFER TO (COMMON EMITTER) THE	63	63	3	16	17	12	4	0	0
6 440 63-13 DO YOU USE OR REFER TO (COMMON EMITTER) THE	63	63	3	16	17	12	4	0	0

BASE CURRENT WHICH RESULTS FROM A SPECIFIC INPUT SIGNAL

CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A

LOW-LEVEL ON A TRANSISTOR CHARACTERISTIC CURVE)

6402 63-15 DO YOU USE OR REFER TO THE OPERATING POINT	63	63	5	27	19	12	7	0	0
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(QUIESCENT POINT) FOR A TRANSISTOR

PARTICULAR TRANSISTOR

EMITTER CONFIGURATION

EMITTER CONFIGURATION

[illegible]

6 497 63-20 DO YOU CALCULATE THE VOLTAGE GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS - DO YOU DIVIDE THE CHANGE	63	63	3	15	12	0	4	0
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IN BASE-EMITTER VOLTAGE INTO THE CHANGE THE BASE COLLECTOR

G 448	63-21 DO YOU CALCULATE THE CURRENT GAIN FOR SPECIFIC	75	75	3	12	10	0	9	0	0
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TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-15K

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	A08	A09	A10	A11	A24	A25	A26	A27	A28
6 454 63-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH THERISTOR STABILIZATION	50	50	3	38	31	12	7	0	0
6 455 63-28 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH FORWARD BIAS DIODE STABILIZATION	50	50	7	40	31	16	6	0	0
6 456 63-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH REVERSE BIAS DIODE STABILIZATION	50	50	5	38	31	16	6	0	0
6 457 63-30 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH DOUBLE DIODE STABILIZATION	38	38	3	32	26	12	7	0	0
6 458 63-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM EMITTER (SWAPPING) RESISTOR STABILIZATION	63	63	12	47	31	20	6	0	0
6 459 63-32 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM SELF-BIAS STABILIZATION	38	38	12	48	29	16	6	0	0
6 460 63-33 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THERMISTOR STABILIZATION	50	50	10	50	33	12	8	0	0
6 461 63-34 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM FORWARD BIAS DIODE STABILIZATION	50	50	12	49	31	20	7	0	0
6 462 63-35 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM REVERSE BIAS DIODE STABILIZATION	63	63	10	49	31	20	7	0	0
6 463 63-36 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM DOUBLE DIODE STABILIZATION	25	25	8	42	24	16	6	0	0
6 464 63-37 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR CIRCUITS	50	50	15	62	33	20	5	0	0
6 465 63-38 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF AMPLITUDE DISTORTION	63	63	19	66	40	20	7	0	0
6 466 63-39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS	88	88	17	54	33	20	6	0	0
6 467 63-40 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR CIRCUITS	88	88	15	35	31	16	4	0	0
6 468 63-41 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF PHASE DISTORTION	63	63	17	34	29	12	4	0	0
6 469 63-42 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF FREQUENCY DISTORTION	63	63	12	52	31	16	5	0	0
6 470 63-43 DO YOU NEED TO KNOW THE DEGENERATIVE EFFECTS ON THE CIRCUIT CAUSED BY CHANGING EMITTER RESISTANCE FOR TRANSISTOR AMPLIFIERS IN THE COMMON COLLECTOR CONFIGURATION	63	63	5	27	21	8	4	1	0
6 471 63-44 DO YOU DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	75	75	7	36	24	12	7	1	0
6 472 63-45 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS	50	50	15	60	12	12	2	0	0
6 473 63-46 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	75	75	27	75	33	44	12	1	0
6 474 63-47 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRY CIRCUITS	25	25	5	55	24	16	2	0	0
6 475 63-48 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS	63	63	14	55	26	12	4	0	0

PCI MBRS RESPONDING 'YES' BY DAFSC GROUPS

GPA008 PAGE 196

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

		DY-15K															
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
		808	809	810	811	824	825	826	827	828							
6	476 63-49 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED	63	63	12	69	24	12	3	0	0							
AMPLIFIERS																	
M	477 M1-01 DO YOU USE OR REFER TO VARACTORS	63	63	7	39	14	8	7	0	1							
M	478 M1-02 DO YOU USE OR REFER TO TUNNEL DIODES	63	63	10	74	21	20	7	3	1							
M	479 M1-03 DO YOU USE OR REFER TO FIELD EFFECT TRANSISTORS (FET)	63	63	10	80	50	44	19	0	1							
M	480 M1-04 DO YOU USE OR REFER TO JUNCTION TRANSISTORS	75	75	10	70	48	52	14	14	1							
M	481 M1-05 DO YOU USE OR REFER TO ZENER DIODES	75	75	31	90	76	60	46	43	3							
M	482 M1-06 DO YOU USE OR REFER TO INTEGRATED CIRCUITS	75	75	37	86	74	60	45	35	7							
M	483 M2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH POWER SUPPLIES	100	100	68	86	74	64	50	12	20							
M	484 M2-02 DO YOU INSPECT POWER SUPPLIES	50	50	42	85	71	64	46	13	14							
M	485 M2-03 DO YOU CLEAN POWER SUPPLIES	13	13	12	73	50	44	43	9	6							
M	486 M2-04 DO YOU ALIGN OR ADJUST POWER SUPPLIES	63	63	37	85	74	48	32	3	7							
M	487 M2-05 DO YOU TROUBLESHOOT TO POWER SUPPLY CIRCUIT LEVEL	50	50	58	85	62	64	38	10	6							
M	488 M2-06 DO YOU TROUBLESHOOT TO POWER SUPPLY COMPONENTS	63	63	42	85	55	56	35	12	4							
M	489 M2-07 DO YOU REMOVE OR REPLACE COMPLETE POWER SUPPLIES	25	25	63	74	71	68	36	12	10							
M	490 M2-08 DO YOU REMOVE OR REPLACE POWER SUPPLY COMPONENTS	13	13	20	84	50	60	34	9	4							
M	491 M2-09 DO YOU WORK WITH HALF-WAVE RECTIFIERS	75	75	24	83	52	40	25	1	1							
M	492 M2-10 DO YOU WORK WITH FULL-WAVE RECTIFIERS OTHER THAN	75	75	25	83	57	48	25	3	2							
BRIDGE RECTIFIERS																	
M	493 M2-11 DO YOU WORK WITH BRIDGE RECTIFIERS	75	75	24	82	62	60	32	6	2							
M	494 M2-12 DO YOU WORK WITH THREE-PHASE RECTIFIERS	13	13	25	26	45	44	13	1	4							
M	495 M2-13 DO YOU USE OR REFER TO INPUT VOLTAGE	88	88	44	84	62	56	37	6	9							
M	496 M2-14 DO YOU USE OR REFER TO INPUT FREQUENCY	88	88	34	73	50	48	19	1	4							
M	497 M2-15 DO YOU USE OR REFER TO PEAK OUTPUT VOLTAGE	88	88	44	71	60	48	23	6	6							
M	498 M2-16 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE	88	88	39	70	57	60	22	3	7							
M	499 M2-17 DO YOU USE OR REFER TO RIPPLE AMPLITUDE	75	75	29	81	48	36	7	1	1							
M	500 M2-18 DO YOU USE OR REFER TO RIPPLE FREQUENCY	75	75	25	74	43	28	6	1	1							
M	501 M2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE	75	75	20	51	40	24	12	0	1							
M	502 M2-20 DO YOU USE OR REFER TO SHAPE OF OUTPUT WAVEFORMS	88	88	41	79	62	52	14	4	1							
M	503 M2-21 DO YOU USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE	88	88	32	76	60	48	22	6	5							
M	504 M2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE	75	75	24	75	45	56	19	1	2							
FILTERS																	
M	505 M2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE	75	75	24	68	45	52	13	1	1							
INPUT L-TYPE FILTERS																	
M	506 M2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE	63	63	20	64	33	44	11	1	1							
INPUT L-TYPE FILTERS																	
M	507 M2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE	63	63	20	62	29	36	10	1	1							
INPUT L-TYPE FILTERS																	
M	508 M2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE	75	75	12	61	24	28	6	1	1							
FILTERS																	
M	509 M2-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE	75	75	12	64	29	32	7	1	1							
FILTERS																	
M	510 M2-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DONT	25	25	24	25	40	16	21	3	4							
REMEMBER WHICH TYPE OF FILTER																	
M	511 M2-29 DO YOU HAVE THE OPTION OF REPLACING ONE TYPE OF	50	50	7	13	7	8	5	0	0							
FILTER WITH A DIFFERENT TYPE FILTER																	
M	512 M3-01 DO YOU WORK WITH OSCILLATIONS IN YOUR PRESENT JOB	63	63	32	78	40	28	8	4	0							

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DIY-ISM

[illegible]

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	828	825	826	827	828
I 586 13-22 DO YOU CALCULATE ACTUAL VALUES OF TRIODE AMPLIFICATION FACTORS	50	50	5	11	0	0	3	0	0
I 587 13-23 DO YOU USE OR REFER TO MULTIGRID (TETRODE, PENTODE, ETC) AMPLIFICATION FACTORS	63	63	8	25	2	0	7	0	0
I 588 13-24 DO YOU USE OR REFER TO ELECTRON TUBE TRANSCONDUCTANCE (6, WHICH IS MEASURED IN MHOS)	38	38	3	12	0	0	3	0	0
I 589 13-25 DO YOU CALCULATE ACTUAL VALUES OF ELECTRON TUBE TRANSCONDUCTANCES	13	13	3	7	0	0	3	0	0
I 590 13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER CALLED AC PLATE RESISTANCE	38	38	5	17	0	0	3	0	0
I 591 13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE RESISTANCE	25	25	2	7	0	0	3	0	0
I 592 13-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECTRODE CAPACITANCE	50	50	10	30	2	0	3	0	0
I 593 13-29 DO YOU USE OR REFER TO CHARACTERISTIC CURVES IN YOUR WORK WITH ELECTRON TUBES	63	63	8	19	0	0	4	0	0
I 594 13-30 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE VOLTAGE FOR A SPECIFIED BIAS	50	50	7	16	0	0	3	0	0
I 595 13-31 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE CURRENT FOR A SPECIFIED BIAS	50	50	7	19	0	0	3	0	0
I 596 13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR CUTOFF	50	50	12	20	2	0	6	0	0
I 597 13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR SATURATION	50	50	10	19	2	0	5	0	0
I 598 13-34 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER GAIN	75	75	34	68	5	0	11	0	0
I 599 13-35 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER EFFICIENCY	75	75	15	40	2	0	8	0	0
I 600 13-36 DO YOU USE TEST TUBE CHECKERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	63	63	24	63	2	0	19	1	0
I 601 13-37 DO YOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	63	63	27	52	0	0	14	1	0
I 602 13-38 DO YOU USE OSCILLOSCOPES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	63	63	36	62	2	0	7	0	0
I 603 13-39 DO YOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	63	63	7	17	0	0	2	0	0
I 604 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH AS INPUT CAPACITANCE	25	25	0	7	0	0	4	0	0
I 605 13-41 DO YOU USE OR REFER TO TUBE SOCKET MOTATION	50	50	14	83	5	0	24	0	0
I 606 13-42 DO YOU USE OR REFER TO PIN NUMBERING SYSTEMS	50	50	20	86	10	0	31	0	0
I 607 13-43 DO YOU USE OR REFER TO THE TYPE OF MATERIAL OR THE OPERATING TEMPERATURE OF THE EMITTING SURFACE IN THE ELECTRON TUBES YOU WORK ON	50	50	2	7	0	0	4	0	0
I 608 13-44 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL SUCH AS MANUALS OR CHARTS	38	38	8	70	0	0	23	0	0
I 609 13-01 DO YOU WORK WITH ELECTRON TUBE AMPLIFIERS OR CIRCUITS IN YOUR PRESENT JOB	50	50	36	80	2	0	19	0	0
I 610 13-02 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON TUBE AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	50	50	10	39	0	0	7	0	0

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-1SK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	A00	A09	A10	A11	A24	A25	A26	A27	A28	
K 642 KI-05 DO YOU TROUBLESHOOT TO AM TRANSMIT OR RECEIVE SYSTEMS	63	63	5	31	0	0	1	0	0	
K 643 KI-06 DO YOU TROUBLESHOOT TO AM TRANSMIT OR RECEIVE	50	50	3	32	0	0	1	0	0	
COMPONENTS										
K 644 KI-07 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE	13	13	2	28	0	0	1	0	0	
SYSTEMS										
K 645 KI-08 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE	13	13	2	31	0	0	1	0	0	
COMPONENTS										
K 646 KI-09 DO YOU PERFORM TASKS ON RF OSCILLATORS	50	50	7	33	0	0	1	0	0	
K 647 KI-10 DO YOU PERFORM TASKS ON RF AMPLIFIERS	50	50	8	33	0	0	1	0	0	
K 648 KI-11 DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS	50	50	5	32	0	0	1	0	0	
K 649 KI-12 DO YOU PERFORM TASKS ON POWER AMPLIFIERS	50	50	5	30	0	0	1	0	0	
K 650 KI-13 DO YOU PERFORM TASKS ON LOCAL OSCILLATORS	50	50	7	32	0	0	1	0	0	
K 651 KI-14 DO YOU PERFORM TASKS ON IF AMPLIFIERS	50	50	8	32	0	0	1	0	0	
K 652 KI-15 DO YOU PERFORM TASKS ON DETECTORS	50	50	7	32	0	0	1	0	0	
K 653 KI-16 DO YOU PERFORM TASKS ON DOWN-1 REMEMBER WHICH AM STAGE	13	13	0	3	0	0	1	0	0	
K 654 KI-17 DO YOU USE OR REFER TO AMPLITUDE STABILIZATION IN	63	63	5	25	0	0	1	0	0	
TRANSMITTERS										
K 655 KI-18 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN	63	63	3	27	0	0	1	0	0	
TRANSMITTERS										
K 656 KI-19 DO YOU USE OR REFER TO SENSITIVITY OF RECEIVERS	75	75	7	30	2	0	1	0	0	
K 657 KI-20 DO YOU USE OR REFER TO SELECTIVITY OF RECEIVERS	75	75	7	27	0	0	1	1	0	
K 658 KI-21 DO YOU USE OR REFER TO 2ND HARMONIC DISTORTION	50	50	3	21	0	0	1	0	0	
K 659 KI-22 DO YOU USE OR REFER TO BANDPASS DISTORTION	50	50	5	24	0	0	1	0	0	
K 660 KI-23 DO YOU USE OR REFER TO SQUARE LAW DISTORTION	36	36	2	12	0	0	1	0	0	
K 661 KI-24 DO YOU USE OR REFER TO CO-CHANNEL INTERFERENCE	13	13	5	13	0	0	1	0	0	
K 662 KI-25 DO YOU USE OR REFER TO IMAGE FREQUENCIES IN RECEIVERS	36	36	3	13	0	0	1	0	0	
K 663 KI-26 DO YOU USE OR REFER TO SIGNAL TO IMAGE RATIOS OR	36	36	5	14	0	0	1	0	0	
IMAGE REJECTION RATIOS										
K 664 KI-27 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM	75	75	2	29	0	0	1	0	0	
TRANSMITTER SCHEMATIC DIAGRAMS										
K 665 KI-28 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM	75	75	7	30	0	0	1	0	0	
RECEIVER SCHEMATIC DIAGRAMS										
K 666 KI-01 DO YOU WORK WITH FM TRANSMIT OR RECEIVE SYSTEMS IN	36	36	12	30	2	0	1	0	1	
YOUR PRESENT JOB										
K 667 KI-02 DO YOU INSPECT FM TRANSMIT OR RECEIVE SYSTEMS	13	13	8	27	2	0	1	0	0	
K 668 KI-03 DO YOU CLEAN FM TRANSMIT OR RECEIVE SYSTEMS	13	13	2	26	2	0	1	0	0	
K 669 KI-04 DO YOU ALIGN FM TRANSMIT OR RECEIVE SYSTEMS	13	13	10	27	2	0	1	0	0	
K 670 KI-05 DO YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE	25	25	12	27	2	0	1	0	0	
SYSTEMS										
K 671 KI-06 DO YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE	25	25	7	26	2	0	1	0	0	
COMPONENTS										
K 672 KI-07 DO YOU REMOVE OR REPLACE FM TRANSMIT OR RECEIVE	13	13	10	24	2	0	1	0	0	
SYSTEMS										
K 673 KI-08 DO YOU REMOVE OR REPLACE FM TRANSMIT OR RECEIVE	13	13	5	26	2	0	1	0	0	
COMPONENTS										
K 674 KI-09 DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS	13	13	7	27	2	0	1	0	0	
K 675 KI-10 DO YOU PERFORM TASKS ON FREQUENCY MULTIPLIERS	13	13	5	26	2	0	1	0	0	

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-15K																		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
																		80A	80B	81A	81B	82A	82B	82C	82D
K 676	K2-11	DO YOU PERFORM TASKS ON DRIVERS (INTERMEDIATE AMPLIFIERS)	13	13	5	27	2	0	1	0	0														
K 677	K2-12	DO YOU PERFORM TASKS ON POWER AMPLIFIERS	25	25	7	26	2	0	1	0	0														
K 678	K2-13	DO YOU PERFORM TASKS ON RF AMPLIFIERS	13	13	8	27	2	0	1	0	0														
K 679	K2-14	DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS	25	25	5	27	2	0	1	0	0														
K 680	K2-15	DO YOU PERFORM TASKS ON IF AMPLIFIERS	25	25	8	28	2	0	1	0	0														
K 681	K2-16	DO YOU PERFORM TASKS ON LIMITERS	25	25	5	25	2	0	1	0	0														
K 682	K2-17	DO YOU PERFORM TASKS ON FREQUENCY DISCRIMINATORS	25	25	5	26	2	0	1	0	0														
K 683	K2-18	DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSMITTERS	38	38	8	26	2	0	1	0	0														
K 684	K2-19	DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM RECEIVERS	38	38	8	26	2	0	1	0	0														
K 685	K3-01	DO YOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL (BASE 8) NUMBERS	75	75	69	13	10	4	3	0	1														
K 686	K3-02	DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2) NUMBERS	75	75	63	32	38	16	5	0	2														
K 687	K3-03	DO YOU CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS	75	75	61	13	14	4	4	0	1														
K 688	K3-04	DO YOU CONVERT OCTAL NUMBERS TO BINARY NUMBERS	75	75	56	10	12	4	3	0	1														
K 689	K3-05	DO YOU CONVERT BINARY NUMBERS TO DECIMAL NUMBERS	88	88	63	31	38	12	4	0	2														
K 690	K3-06	DO YOU CONVERT BINARY NUMBERS TO OCTAL NUMBERS	75	75	51	11	14	4	3	0	1														
K 691	K3-07	DO YOU ADD BINARY NUMBERS TO GET A SUM	75	75	42	26	33	12	6	0	3														
K 692	K3-08	DO YOU SUBTRACT BINARY NUMBERS USING THE END-AROUND-CARRY METHOD	63	63	20	15	21	0	3	0	2														
K 693	K3-09	DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT SUBTRACTION METHOD	63	63	25	19	24	8	4	0	3														
K 694	K3-10	DO YOU ADD OCTAL NUMBERS TO GET A SUM	63	63	39	9	12	4	5	0	1														
L 695	L1-01	IM YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO LOGIC FUNCTIONS	75	75	12	43	52	32	4	3	2														
L 696	L1-02	DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES	63	63	10	23	45	8	2	0	1														
L 697	L1-03	DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	63	63	10	23	45	8	3	0	1														
L 698	L1-04	DO YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS	63	63	10	23	45	8	2	0	1														
L 699	L1-05	DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS OR GATES	63	63	10	22	43	8	2	0	1														
L 700	L1-06	DO YOU USE OR REFER TO TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES	75	75	12	36	48	16	3	0	2														
L 701	L1-07	DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	75	75	12	35	48	16	3	0	2														
L 702	L1-08	DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS	75	75	12	35	43	16	3	0	1														
L 703	L1-09	DO YOU USE OR REFER TO TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS	75	74	12	34	45	16	3	0	1														
L 704	L1-10	DO YOU USE OR REFER TO LOGIC SYMBOLS FOR AND GATES	75	75	19	42	55	28	4	0	2														
L 705	L1-11	DO YOU USE OR REFER TO LOGIC SYMBOLS FOR OR GATES	75	75	14	43	53	28	4	0	2														
L 706	L1-12	DO YOU USE OR REFER TO LOGIC SYMBOLS FOR NAND OR NOR GATES	75	75	14	43	50	32	4	0	2														

PCT MBRS RESPONDING 'YES' BY DAESC GROUPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

6P2008 PAGE 203

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

		DY-1SK														
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		A08	A09	A10	A11	A24	A25	A26	A27	A28						
L 707	L1-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE OR GATES	75	75	14	40	50	32	4	0	1						
L 708	L2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC CIRCUITS	63	63	5	26	24	24	2	0	1						
L 709	L2-02 DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUITS	30	30	5	10	10	4	1	0	0						
L 710	L2-03 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS	25	25	5	6	10	8	1	0	1						
L 711	L2-04 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN EQUATIONS	75	75	5	8	14	4	1	0	1						
L 712	L2-05 DO YOU MEASURE INPUTS OR OUTPUTS OF LOGIC GATES	25	25	5	26	21	20	2	0	1						
L 713	L2-06 DO YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS	25	25	3	10	12	8	1	0	0						
L 714	L2-07 DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN ALGEBRA	25	25	5	12	17	8	1	0	1						
L 715	L2-08 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUIT GATES	38	38	7	18	7	4	1	0	0						
L 716	L2-09 DO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS	25	25	7	10	7	4	1	0	0						
L 717	L2-10 DO YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE	63	63	7	26	21	16	1	0	1						
L 718	L2-11 DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL HALF OR FULL ADDER LOGIC DIAGRAMS	63	63	7	8	10	4	1	1	1						
L 719	L2-12 DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER LOGIC DIAGRAMS	63	63	5	13	12	8	1	0	1						
L 720	L2-13 DO YOU WORK WITH ASYNCHRONOUS (FREE RUNNING) MULTIVIBRATORS	63	63	8	29	17	12	2	0	0						
L 721	L2-14 DO YOU WORK WITH BISTABLE (FLIP-FLOP) MULTIVIBRATORS	63	63	8	30	19	16	2	0	1						
L 722	L2-15 DO YOU WORK WITH MONOSTABLE (ONE-SHOT) MULTIVIBRATORS	63	63	8	29	19	16	2	0	0						
L 723	L2-16 DO YOU USE OR REFER TO FLIP-FLOP MULTIVIBRATOR SYMBOLS	75	75	8	29	21	20	2	0	1						
L 724	L2-17 DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIBRATOR SYMBOLS	50	50	10	29	21	16	1	0	0						
L 725	L2-18 DO YOU USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAMS	75	75	8	29	21	24	1	0	1						
L 726	L2-19 DO YOU USE OR REFER TO FLIP-FLOP TRUTH TABLES	50	50	7	26	21	16	1	0	1						
L 727	L2-20 DO YOU USE OR REFER TO COMPLEMENTED FLIP-FLOP LOGIC SYMBOLS	13	13	5	23	21	13	1	0	0						
L 728	L2-21 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC SYMBOLS	25	25	5	23	21	16	1	0	0						
L 729	L2-22 DO YOU MEASURE OUTPUT WAVESHAPES OF LOGIC CIRCUITS	38	38	5	29	24	16	2	0	0						
L 730	L2-23 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS	25	25	5	24	21	16	1	0	0						
L 731	L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP SCHEMATIC DIAGRAMS	25	25	5	24	21	16	1	0	0						
L 732	L2-25 DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP LOGIC SYMBOLS	25	25	3	15	14	8	1	0	0						

TASK	GROUP SUMMARY	PERCENT MEMBERS PERFORMING
1. Identify the problem	100%	100%
2. Generate ideas	100%	100%
3. Evaluate ideas	100%	100%
4. Select a solution	100%	100%
5. Implement the solution	100%	100%
6. Evaluate the results	100%	100%

DY-TSM

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828
L 733 L3-01 DO YOU WORK WITH DIGITAL COUNTERS IN YOUR PRESENT JOB	63	63	10	58	55	52	6	3	4
L 734 L3-02 DO YOU USE OR REFER TO UP-COUNTERS	63	63	12	31	48	40	5	0	3
L 735 L3-03 DO YOU USE OR REFER TO DOWN-COUNTERS	63	63	10	28	43	32	4	0	2
L 736 L3-04 DO YOU USE OR REFER TO SERIAL COUNTERS	50	50	8	23	40	16	4	1	1
L 737 L3-05 DO YOU USE OR REFER TO PARALLEL COUNTERS	50	50	8	22	31	12	3	0	1
L 738 L3-06 DO YOU USE OR REFER TO RING COUNTERS	13	13	3	19	17	0	2	0	0
L 739 L3-07 DO YOU USE OR REFER TO DECADE COUNTERS	13	13	3	46	24	28	3	0	1
L 740 L3-08 DO YOU USE OR REFER TO COUNT DETECT CIRCUITS	25	25	7	26	33	20	3	1	0
L 741 L3-09 DO YOU USE OR REFER TO DOWN CLOCKS	38	38	8	26	45	20	3	0	0
L 742 L3-10 DO YOU USE OR REFER TO UP CLOCKS	38	38	8	27	45	20	4	0	0
L 743 L3-11 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF UP-COUNTERS HAVING COMPLEMENTED FLIP-FLOPS	25	25	10	24	36	24	2	0	0
L 744 L3-12 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP-FLOPS	25	25	8	20	29	8	2	0	0
L 745 L3-13 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF DECADE COUNTERS	13	13	5	37	24	12	2	0	0
L 746 L3-14 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF RING COUNTERS	0	0	3	17	14	0	2	0	0
L 747 L3-15 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE REGISTER	38	38	5	19	29	0	2	0	0
L 748 L3-16 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT REGISTERS	50	50	8	21	29	8	2	0	0
L 749 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF COUNTERS	50	50	8	22	26	16	3	3	1
L 750 L3-18 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR UP-COUNTERS HAVING COMPLEMENTED FLIP-FLOPS	25	25	8	18	24	16	2	0	0
L 751 L3-19 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP-FLOPS	25	25	5	15	17	4	2	0	0
L 752 L3-20 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE REGISTERS	38	38	5	14	17	0	2	0	0
L 753 L3-21 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR OTHER TYPES OF COUNTERS	50	50	7	18	26	20	2	4	1
L 754 L3-22 DO YOU CONSTRUCT TRUTH TABLES FROM LOGIC DIAGRAMS OF DECADE COUNTERS	13	13	3	14	14	0	2	0	0
L 755 L3-23 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP IN RING COUNTERS FOR SPECIFIC INPUT PULSES	13	13	3	17	14	0	2	0	0
L 756 L3-24 DO YOU DETERMINE THE APPROPRIATE AND GATE NECESSARY IN COUNT DETECT CIRCUITS TO INDICATE A REQUIRED COUNT	38	38	7	24	31	20	2	0	1
M 757 M1-01 DO YOU WORK WITH SAWTOOTH WAVE GENERATORS	75	75	59	67	60	24	8	3	0
M 758 M1-02 DO YOU WORK WITH TRIANGULAR WAVE GENERATORS	63	63	17	29	21	12	4	1	0
M 759 M1-03 DO YOU WORK WITH PULSED OSCILLATORS WITH REGENERATIVE FEEDBACK	63	63	27	57	43	28	6	9	0
M 760 M1-04 DO YOU WORK WITH PULSED OSCILLATORS WITHOUT REGENERATIVE FEEDBACK	50	50	22	55	38	16	6	1	0

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-ISK																	
	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828								
M 761 M1-05 DO YOU WORK WITH BLOCKING OSCILLATORS	75	75	59	53	38	32	6	1	0								
M 762 M1-06 DO YOU USE OR REFER TO RISE TIME	75	75	29	78	62	28	7	1	1								
M 763 M1-07 DO YOU USE OR REFER TO FALL OR FLBACK TIME	75	75	25	71	60	20	7	6	1								
M 764 M1-08 DO YOU USE OR REFER TO SLEEP TIME	88	88	64	76	71	40	11	6	0								
M 765 M1-09 DO YOU USE OR REFER TO ELECTRICAL LENGTH OF SAWTOOTH	88	88	56	57	67	12	9	3	0								
M 766 M1-10 DO YOU USE OR REFER TO PHYSICAL LENGTH OF SAWTOOTH	88	88	56	59	60	12	7	1	1								
M 767 M1-11 DO YOU USE OR REFER TO LINEAR SLOPE OF SAWTOOTH	75	75	44	58	57	24	7	1	0								
M 768 M1-12 DO YOU USE OR REFER TO GATE LENGTH OF SAWTOOTH	88	88	37	59	55	24	5	1	0								
M 769 M2-01 DO YOU USE SIGNAL GENERATORS IN YOUR PRESENT JOB	75	75	24	85	33	8	9	1	1								
M 770 M2-02 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL GENERATORS	50	50	24	81	29	8	3	1	2								
M 771 M2-03 DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS ADJUSTING, ALIGNING, OR CALIBRATING WHILE USING SIGNAL GENERATORS	25	25	17	74	26	4	2	1	1								
M 772 M2-04 DO YOU TROUBLESHOOT TO AN ASSEMBLY OR SUBASSEMBLY WHILE USING SIGNAL GENERATORS	38	38	22	71	26	4	2	1	1								
M 773 M2-05 DO YOU TROUBLESHOOT TO THE SMALLEST REPLACABLE COMPONENT WHILE USING SIGNAL GENERATORS	13	13	5	71	19	4	1	1	1								
M 774 M2-06 DO YOU USE AUDIO SINE-WAVE GENERATORS	50	50	12	85	7	4	2	0	0								
M 775 M2-07 DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS SUCH AS SQUARE WAVE, TRIANGLE, PULSE, OR SPIKE	50	50	12	79	14	0	1	0	0								
M 776 M2-08 DO YOU USE RF GENERATORS LESS THAN 1,000 MH	50	50	15	80	24	4	1	0	0								
M 777 M2-09 DO YOU USE RF GENERATORS GREATER THAN 1,000 MH	13	13	17	68	17	0	1	0	0								
M 778 M2-10 DO YOU USE OTHER SPECIAL PURPOSE OR MULTI-FUNCTION GENERATORS	25	25	10	71	17	0	3	1	1								
M 779 M3-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH ALTERNATING CURRENT OR DIRECT CURRENT MOTORS OR GENERATORS	50	50	25	37	29	64	77	59	12								
M 780 M3-02 DO YOU INSPECT MOTORS	13	13	17	36	31	60	77	59	5								
M 781 M3-03 DO YOU CLEAN OR LUBRICATE MOTORS	0	0	7	39	29	48	76	46	3								
M 782 M3-04 DO YOU OPERATE MOTORS	25	25	14	35	33	64	79	55	11								
M 783 M3-05 DO YOU REMOVE OR REPLACE COMPLETE MOTORS	0	0	17	36	31	64	74	58	3								
M 784 M3-06 DO YOU REMOVE OR REPLACE MOTOR PARTS	13	13	3	20	14	40	62	19	2								
M 785 M3-07 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS OF MOTORS	13	13	20	35	31	68	76	59	4								
M 786 M3-08 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF MOTORS	0	0	7	14	19	28	57	25	1								
M 787 M3-09 DO YOU PERFORM ANY TASKS ON FIELD COILS	13	13	7	11	7	8	26	9	1								
M 788 M3-10 DO YOU PERFORM ANY TASKS ON ARMATURES	13	13	7	12	5	12	37	13	1								
M 789 M3-11 DO YOU PERFORM ANY TASKS ON ROTORS	13	13	7	12	5	12	38	9	1								
M 790 M3-12 DO YOU PERFORM ANY TASKS ON BRUSHES	13	13	5	19	5	44	59	22	1								
M 791 M3-13 DO YOU PERFORM ANY TASKS ON SLIP RINGS	13	13	7	12	2	40	29	12	1								
M 792 M3-14 DO YOU PERFORM ANY TASKS ON COMPUTERS	13	13	7	12	2	29	30	10	1								
M 793 M3-15 DO YOU PERFORM ANY TASKS ON POLE PIECES	13	13	7	10	2	12	23	7	1								

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DT-15K

M 794 M3-16 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OF THE FORCE OR TORQUE CREATED BY A MOTOR	25	25	5	5	17	12	13	7	1	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
M 795 M3-17 DO YOU DETERMINE OR MEASURE THE DIRECTION OF THE MECHANICAL FORCE OR TORQUE CREATED BY A MOTOR	38	38	5	7	21	24	19	19	1	808	809	810	811	824	825	826	827
M 796 M3-18 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OR DIRECTION OF THE INDUCED VOLTAGE IN MOTORS OR DIRECTOR OF THE INDUCED VOLTAGE IN MOTORS	38	38	5	5	12	24	12	13	1								
M 797 M3-19 DO YOU WORK WITH SYNCHRONOUS MOTORS	25	25	10	22	31	28	27	33	1								
M 798 M3-20 DO YOU WORK WITH INDUCTION MOTORS	38	38	12	19	21	36	35	19	1								
M 799 M3-21 DO YOU WORK WITH SPLIT-PHASE MOTORS	50	50	10	13	19	24	32	12	1								
M 800 M3-22 DO YOU WORK WITH SOME COMBINATION OF THE ABOVE MOTORS	38	38	10	21	24	52	50	38	3								
M 801 M3-23 DO YOU INSPECT GENERATORS	13	13	8	23	19	20	18	3	3								
M 802 M3-24 DO YOU CLEAN OR LUBRICATE GENERATORS	0	0	2	21	14	20	18	3	1								
M 803 M3-25 DO YOU OPERATE GENERATORS	25	25	8	24	21	16	25	4	0								
M 804 M3-26 DO YOU REMOVE OR REPLACE COMPLETE GENERATORS	13	13	5	19	14	20	12	1	0								
M 805 M3-27 DO YOU REMOVE OR REPLACE GENERATOR PARTS	13	13	2	14	7	12	12	1	0								
M 806 M3-28 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS OF GENERATORS	13	13	8	21	14	32	17	3	2								
M 807 M3-29 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF GENERATORS	0	0	2	14	5	12	13	1	0								
M 808 M1-01 DO YOU WORK WITH METERS IN YOUR PRESENT JOB	88	88	71	79	67	72	67	62	55								
M 809 M1-02 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF PERMANENT MAGNETS	63	63	14	46	14	12	14	7	2								
M 810 M1-03 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF MOVING COILS	63	63	15	47	17	12	13	12	3								
M 811 M1-04 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF SPIRAL SPRINGS	38	38	12	46	10	8	14	9	3								
M 812 M1-05 DO YOU READ METER SCALES	88	88	73	80	74	72	69	74	60								
M 813 M1-06 DO YOU EXTEND THE RANGE OF AMMETERS	75	75	29	53	38	32	18	29	12								
M 814 M1-07 DO YOU ZERO OHMMETERS	88	88	71	79	76	68	70	75	57								
M 815 M1-08 DO YOU ZERO OHMMETERS	63	63	32	67	50	32	35	42	16								
M 816 M1-09 DO YOU EXTEND THE RANGE OF VOLTMETERS	75	75	37	58	45	44	25	41	22								
M 817 M1-10 DO YOU USE OR REFER TO VOLTMETER SENSITIVITY (EXPRESSED IN UNITS OF OHMS PER VOLT)	63	63	46	71	43	28	35	28	22								
M 818 M2-01 DO YOU WORK WITH SATURABLE REACTORS OR MAGNETIC AMPLIFIERS IN YOUR PRESENT JOB	63	63	8	6	5	4	1	0	0								
M 819 M2-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	0	0	5	5	5	4	1	0	0								
M 820 M2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	0	0	5	4	0	4	1	0	0								
M 821 M2-04 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	0	0	5	4	0	0	1	0	0								
M 822 M2-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	0	0	5	5	5	0	1	0	0								
M 823 M2-06 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	0	0	7	5	5	0	1	0	0								
M 824 M2-07 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIER OR SATURABLE REACTOR COMPONENTS	0	0	3	4	2	0	1	0	0								

TASK	GROUP SUMMARY	PERCENT MEMBERS PERFORMING
1. Identify the problem	100%	100%
2. Generate ideas	100%	100%
3. Evaluate ideas	100%	100%
4. Implement the solution	100%	100%
5. Review the solution	100%	100%

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	828	825	826	827	828
N 825 N2-08 DO YOU USE OR REFER TO HYSTERESIS CURVES OR LOOPS	50	50	3	2	0	0	1	0	0
N 826 N2-09 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT	63	63	7	4	2	0	1	0	0
WAVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF SINGLE WINDING SATURABLE REACTORS									
N 827 N2-10 DO YOU MEASURE OUTPUT WAVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF SINGLE WINDING SATURABLE REACTORS	25	25	5	5	2	4	1	0	0
N 828 N2-11 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT WAVEFORMS FOR MAGNETIC AMPLIFIERS	63	63	7	4	2	4	1	0	0
N 829 N2-12 DO YOU USE OR REFER TO COERCIVE FORCE IN SATURABLE REACTORS	50	50	0	2	0	0	1	0	0
N 830 N2-13 DO YOU USE OR REFER TO RESIDUAL MAGNETISM IN SATURABLE REACTORS	63	63	2	2	0	0	1	0	0
N 831 N2-14 DO YOU USE OR REFER TO FLUX DENSITY IN SATURABLE REACTORS	63	63	2	1	0	4	1	0	0
N 832 N2-15 DO YOU USE OR REFER TO POINT OF SATURATION IN SATURABLE REACTORS	75	75	0	1	0	4	1	0	0
N 833 N2-16 DO YOU USE OR REFER TO SATURABLE REACTOR SCHEMATIC SYMBOLS	75	75	3	4	2	4	1	0	0
N 834 N3-01 DO YOU WORK WITH WAVESHAPING CIRCUITS IN YOUR PRESENT JOB	75	75	53	63	60	24	4	3	1
N 835 N3-02 DO YOU USE OR REFER TO TRANSIENT INTERVALS	63	63	22	36	24	12	1	3	1
N 836 N3-03 DO YOU USE OR REFER TO PULSE WIDTH (PW)	75	75	53	61	57	24	1	3	1
N 837 N3-04 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)	75	75	39	57	55	24	1	1	1
N 838 N3-05 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF)	75	75	53	58	55	16	1	1	1
N 839 N3-06 DO YOU USE OR REFER TO DIFFERENTIATING CIRCUITS	75	75	24	53	45	20	1	1	1
N 840 N3-07 DO YOU USE OR REFER TO INTEGRATING CIRCUITS	75	75	36	55	50	24	2	3	1
N 841 N3-08 DO YOU USE OR REFER TO THE CLASSIFICATION OF TIME CONSTANTS (TTC) AS LONG, MEDIUM, OR SHORT	63	63	34	47	33	16	1	1	1
N 842 N3-09 DO YOU DETERMINE WHETHER AN LR OR RC CIRCUIT IS DIFFERENTIATING OR INTEGRATING BASED ON THE TIME CONSTANT AND OUTPUT CONFIGURATION	63	63	10	32	21	0	1	0	0
N 843 N3-10 DO YOU WORK WITH SQUARE WAVE GENERATORS	75	75	22	61	38	24	3	1	1
N 844 N3-11 DO YOU WORK WITH RECTANGULAR WAVE GENERATORS	38	38	12	55	24	12	2	0	0
N 845 N3-01 DO YOU WORK ON SINGLE SIDEBAND SYSTEMS IN YOUR PRESENT JOB	0	0	2	6	7	0	1	0	0
N 846 N1-02 DO YOU INSPECT SSR TRANSMIT OR RECEIVE SYSTEMS	0	0	0	5	5	0	1	0	0
N 847 N1-03 DO YOU CLEAN SSR TRANSMIT OR RECEIVE SYSTEMS	0	0	0	5	5	0	1	0	0
N 848 N1-04 DO YOU ALIGN SSR TRANSMIT OR RECEIVE SYSTEMS	0	0	0	5	7	0	1	0	0
N 849 N1-05 DO YOU TROUBLESHOOT TO SSR TRANSMIT OR RECEIVE SYSTEMS	0	0	0	5	7	0	1	0	0
N 850 N1-06 DO YOU TROUBLESHOOT TO SSR TRANSMIT OR RECEIVE COMPONENTS	0	0	0	5	7	0	1	0	0
N 851 N1-07 DO YOU REMOVE OR REPLACE SSR TRANSMIT OR RECEIVE SYSTEMS	0	0	0	4	7	0	1	0	0
N 852 N1-08 DO YOU REMOVE OR REPLACE SSR TRANSMIT OR RECEIVE COMPONENTS	0	0	0	4	7	0	1	0	0

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

01-15K	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	828	825	826	827	828
0 889 02-15 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM POWER SUPPLIES	13	13	17	28	10	0	1	0	0
0 890 02-16 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM CHARGING CHOKES AND CHARGING DIODES	0	0	5	18	10	0	1	0	0
0 891 02-17 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PULSE FORMING NETWORKS	13	13	19	30	10	0	1	0	0
0 892 02-18 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TIMERS	13	13	10	25	10	0	2	0	0
0 893 02-19 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM SWITCHES SUCH AS GAS THYRATRON	13	13	15	18	7	0	1	0	0
0 894 02-20 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PULSE TRANSFORMERS	13	13	17	22	10	0	1	0	0
0 895 02-21 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TRANSMITTER TUBES	13	13	17	24	2	0	1	0	0
0 896 02-22 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM RF AMPLIFIERS	13	13	22	31	7	0	1	0	0
0 897 02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM FREQUENCY CONVERTERS	13	13	19	30	10	0	1	0	0
0 898 02-24 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM IF AMPLIFIERS	13	13	17	30	7	0	1	0	0
0 899 02-25 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DETECTORS	13	13	19	31	12	0	1	0	0
0 900 02-26 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM VIDEO AMPLIFIERS	13	13	22	28	7	0	1	0	0
0 901 02-27 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM POWER VIDEO AMPLIFIERS	13	13	17	22	7	0	1	0	0
0 902 02-28 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DON'T REMEMBER WHICH PULSE MODULATION SYSTEM STAGES	13	13	5	5	0	0	1	0	0
0 903 02-29 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF)	25	25	25	39	12	0	1	0	0
0 904 02-30 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)	25	25	15	31	10	4	1	0	0
0 905 02-31 DO YOU USE OR REFER TO PULSE WIDTH (PW)	25	25	35	12	4	1	0	0	0
0 906 02-32 DO YOU USE OR REFER TO PULSE SHAPE	25	25	24	34	10	0	1	0	0
0 907 02-33 DO YOU USE OR REFER TO PEAK POWER	25	25	24	31	10	0	1	0	0
0 908 02-34 DO YOU USE OR REFER TO AVERAGE POWER	25	25	17	30	7	0	1	0	0
0 909 02-35 DO YOU CALCULATE PULSE RECURRENCE TIME (PRT) OR PULSE RECURRENCE FREQUENCY (PRF)	25	25	12	26	7	4	1	0	0
0 910 02-36 DO YOU MEASURE PULSE RECURRENCE TIME (PRT) OR PULSE RECURRENCE FREQUENCY (PRF)	25	25	15	32	10	4	1	0	0
0 911 02-37 DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEMS	25	25	10	23	7	0	1	0	0
0 912 02-38 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION TRANSMITTER SCHEMATIC DIAGRAMS	25	25	20	28	10	0	1	0	0
0 913 02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION RECEIVER SCHEMATIC DIAGRAMS	25	25	25	27	10	0	1	0	0
0 914 03-01 DO YOU WORK WITH ANTENNAS IN YOUR PRESENT JOB	63	63	71	9	17	4	1	0	1
0 915 03-02 DO YOU INSPECT ANTENNAS	25	25	63	9	17	4	1	0	1

TASK	GROUP SUMMARY	PERCENT MEMBERS PERFORMING
1. Identify the problem	100%	100%
2. Generate ideas	100%	100%
3. Evaluate ideas	100%	100%
4. Implement the solution	100%	100%
5. Monitor the solution	100%	100%
6. Evaluate the results	100%	100%
7. Report the results	100%	100%
8. Reflect on the process	100%	100%
9. Share the results	100%	100%
10. Celebrate the success	100%	100%

DY-TSM

DI-15K	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828
0 916 03-03 DO YOU CLEAN ANTENNAS	25	25	29	6	12	4	1	0	0
0 917 03-04 DO YOU PHYSICALLY ALIGN ANTENNAS	25	25	71	5	12	0	1	0	0
0 918 03-05 DO YOU ELECTRICALLY ALIGN ANTENNAS	25	25	64	5	12	0	1	0	0
0 919 03-06 DO YOU TROUBLESHOOT TO ANTENNAS	30	30	71	7	17	0	1	0	0
0 920 03-07 DO YOU TROUBLESHOOT TO ANTENNA COMPONENTS	25	25	64	4	12	0	1	0	0
0 921 03-08 DO YOU REMOVE OR INSTALL ANTENNAS	25	25	71	6	17	4	1	0	0
0 922 03-09 DO YOU REMOVE OR REPLACE COMPONENTS OF ANTENNAS	13	13	61	4	19	0	1	0	0
0 923 03-10 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF E OR ELECTRIC FIELD LINES	30	30	14	3	2	0	1	0	0
0 924 03-11 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF H OR MAGNETIC FIELD LINES	30	30	12	2	0	0	1	0	0
0 925 03-12 DO YOU DETERMINE THE DIRECTION OF THE MAGNETIC LINES IN RELATION TO THE ELECTRIC LINES OF FORCE FOR ANTENNAS	30	30	8	2	0	0	1	0	0
0 926 03-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE OF CORRECT LENGTH (HALF-WAVE) ACT AS INDUCTIVE LOADS TO THE GENERATOR	30	30	8	3	0	0	1	0	0
0 927 03-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE LONGER THAN A HALF-WAVE ACT AS INDUCTIVE LOADS TO THE GENERATOR	50	50	7	3	0	0	1	0	0
0 928 03-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS CAPACITIVE LOADS TO THE GENERATOR	50	50	3	3	0	0	1	0	0
0 929 03-16 DO YOU WORK WITH HERTZ ANTENNAS	30	30	19	3	7	0	1	0	0
0 930 03-17 DO YOU WORK WITH MARCONI ANTENNAS	25	25	3	2	2	0	1	0	0
0 931 03-18 DO YOU WORK WITH BROADSIDE ARRAYS	25	25	2	1	5	0	1	0	0
0 932 03-19 DO YOU WORK WITH END-FIRE ARRAYS	25	25	5	1	0	0	1	0	0
0 933 03-20 DO YOU WORK WITH CARDIOID ARRAYS	25	25	2	1	0	0	1	0	0
0 934 03-21 DO YOU WORK WITH COLLINER ARRAYS	30	30	3	1	2	0	1	0	0
0 935 03-22 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC INDUCTION FIELDS WHEN WORKING WITH ANTENNAS	30	30	5	2	0	0	1	0	0
0 936 03-23 DO YOU MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF ANTENNAS	13	13	5	1	0	0	1	0	0
0 937 03-24 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS	30	30	7	2	0	0	1	0	0
0 938 03-25 DO YOU MEASURE ELECTROMAGNETIC RADIATION FIELDS OF ANTENNAS	0	0	7	1	0	0	1	0	0
0 939 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION	50	50	3	1	0	0	1	0	0
0 940 03-27 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD	30	30	3	1	0	0	1	0	0
0 941 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY POLARIZED	0	0	5	1	5	0	1	0	0
0 942 03-29 ARE ANY OF THE ANTENNAS YOU WORK ON CIRCULARLY POLARIZED	13	13	3	1	0	0	1	0	0
0 943 03-30 DO YOU MEASURE OR DETERMINE THE POLARITY OF ANTENNAS YOU WORK ON	13	13	3	1	0	0	1	0	0
0 944 03-31 DO YOU CONSTRUCT, OR MAKE THE CALCULATIONS NECESSARY TO CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR SPECIFIC WAVELENGTHS	25	25	3	3	0	0	1	0	0

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-1SK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	A00	A09	A10	A11	A20	A25	A26	A27	A28	
0 945 03-32 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS	13	13	3	1	2	0	1	0	0	
0 946 03-33 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS SERVING AS DIRECTORS	13	13	3	1	5	0	1	0	0	
0 947 03-34 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS SERVING AS REFLECTORS	13	13	5	1	7	0	1	0	0	
0 948 03-35 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN DON'T REMEMBER WHAT KIND OF ELEMENTS	13	13	19	3	7	0	1	0	1	
0 949 03-36 DO YOU WORK ON UNIDIRECTIONAL ANTENNAS	25	25	25	4	5	0	1	0	0	
0 950 03-37 DO YOU WORK ON BIDIRECTIONAL ANTENNAS	30	30	14	4	5	0	1	0	0	
0 951 03-38 DO YOU WORK ON DON'T REMEMBER THE DIRECTIONALITY	0	0	19	2	7	0	1	0	1	
0 952 03-39 DO YOU WORK WITH ROTAR ANTENNA ARRAYS	0	0	19	2	2	0	1	0	0	
P 953 P1-01 IN YOUR PRESENT JOB DO YOU WORK WITH TRANSMISSION LINES (TRANSMISSION LINES ARE DEFINED TO INCLUDE LEADS BETWEEN RECEIVERS AND ANTENNAS, TELEPHONE LEADS, AS WELL AS HIGH VOLTAGE POWER LINES, ETC. DO NOT CONSIDER WAVEGUIDES AS TRANSMISSION LINES)	50	50	19	13	5	0	3	0	0	
P 954 P1-02 DO YOU REFER TO OR USE COPPER LOSS OR IZR LOSS IN TRANSMISSION LINES	30	30	5	5	0	0	2	0	0	
P 955 P1-03 DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY CURRENTS IN TRANSMISSION LINES	30	30	7	6	0	0	1	0	0	
P 956 P1-04 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION LINES	50	50	0	0	2	0	1	0	0	
P 957 P1-05 DO YOU REFER TO DIELECTRIC LOSS IN TRANSMISSION LINES	50	50	5	6	0	0	1	0	0	
P 958 P1-06 DO YOU USE OR REFER TO LEAKAGE LOSSES IN TRANSMISSION LINES	50	50	0	0	0	0	1	0	0	
P 959 P1-07 DO YOU WORK WITH TWISTED PAIR TRANSMISSION LINES	0	0	7	8	2	0	2	0	0	
P 960 P1-08 DO YOU WORK WITH TWIN LEAD TRANSMISSION LINES	25	25	7	9	2	0	2	0	0	
P 961 P1-09 DO YOU WORK WITH OPEN TWO-WIRE TRANSMISSION LINES	25	25	7	8	2	0	1	0	0	
P 962 P1-10 DO YOU WORK WITH FLEXIBLE COAXIAL CABLE TRANSMISSION LINES	30	30	19	14	5	0	2	0	0	
P 963 P1-11 DO YOU WORK WITH RIGID COAXIAL CABLE TRANSMISSION LINES	25	25	7	12	0	0	1	0	0	
P 964 P1-12 DO YOU TROUBLESHOOT TRANSMISSION LINES	13	13	15	10	5	0	2	0	0	
P 965 P1-13 DO YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN TRANSMISSION LINES TO DETERMINE THE TYPE OF TERMINATION (OPEN, SHORTED, CAPACITIVE, INDUCTIVE)	50	50	10	7	2	0	1	0	0	
P 966 P1-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINES TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS	30	30	3	11	5	0	1	0	0	
P 967 P1-15 DO YOU USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERMINATIONS IN TERMS OF CIRCUIT TERMINATIONS	50	50	8	11	5	0	2	0	0	
P 968 P1-16 DO YOU MEASURE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES	25	25	5	12	2	0	1	0	0	
P 969 P1-17 DO YOU CALCULATE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES	25	25	3	10	2	0	1	0	0	
P 970 P1-18 DO YOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER - WAVELENGTH MATCHING TRANSFORMERS TO MATCH TRANSMISSION LINES TO LOADS	25	25	3	6	0	0	1	0	0	

PCI MBRS RESPONDING 'YES' BY DAFSC GROUPS

GROUP PAGE 213

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	820	825	826	827	828
P1003 P2-20 DO YOU USE OR REFER TO "A" WALL OF WAVEGUIDES	25	25	10	9	0	0	1	0	0
P1004 P2-21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF WAVEGUIDES	25	25	10	23	2	0	1	0	0
P1005 P2-22 DO YOU USE OR REFER TO FREQUENCY-DETERMINING WALL OF WAVEGUIDES	25	25	8	13	0	0	1	0	0
P1006 P2-23 DO YOU USE OR REFER TO POWER-DETERMINING WALL OF WAVEGUIDES	25	25	8	9	0	0	1	0	0
P1007 P2-24 DO YOU USE OR REFER TO ELECTRIC FIELD BOUNDARY CONDITIONS	38	38	3	7	0	0	1	0	0
P1008 P2-25 DO YOU USE OR REFER TO MAGNETIC FIELD BOUNDARY CONDITIONS	38	38	3	6	0	0	1	0	0
P1009 P2-26 DO YOU USE OR REFER TO DIAPHRAGM FIELD BOUNDARY CONDITIONS	25	25	3	4	0	0	1	0	0
P1010 P2-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST WAVEGUIDES ARE MADE WITH A "B" WALL SIZE OF .7 WAVELENGTHS OF THE OPERATING FREQUENCY	13	13	5	6	2	0	1	0	0
P1011 P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST WALLS RANGE FROM .2 TO .5 WAVELENGTHS IN SIZE, WITH .35 USED AS AN AVERAGE	13	13	2	6	0	0	1	0	0
P1012 P2-29 ARE YOU CONCERNED WITH THE MATERIAL (SUCH AS BRASS) WHICH WAVEGUIDES ARE MADE OF	13	13	0	6	2	0	1	0	0
P1013 P2-30 DO YOU COMPUTE THE LENGTH OF A WAVEGUIDE FOR SPECIFIC INSTALLATION	0	0	2	6	0	0	1	0	0
P1014 P2-31 DO YOU USE THE RIGHT HAND RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF "E" FIELD, OR DIRECTION OF "H" FIELD IN WAVEGUIDES	38	38	3	6	0	0	1	0	0
P1015 P2-32 DO YOU USE OR REFER TO THE TIME PHASE OF PEAK "E" OR "H" LINES IN WAVEGUIDES	13	13	3	5	2	0	1	0	0
P1016 P2-33 DO YOU MEASURE THE TIME PHASE OF "E" OR "H" LINES IN WAVEGUIDES	13	13	2	4	0	0	1	0	0
P1017 P2-34 DO YOU USE OR REFER TO THE SPACE QUADRATURE OF "E" OR "H" LINES IN WAVEGUIDES	25	25	0	4	0	0	1	0	0
P1018 P2-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	25	25	17	12	7	0	1	0	0
P1019 P2-36 ARE LOW POWER PROBES USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	13	13	10	17	7	0	1	0	0
P1020 P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	13	13	7	19	0	0	1	0	0
P1021 P2-38 ARE APERTURES (WINDOWS OR IRISES) USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	25	25	7	12	2	0	1	0	0
P1022 P2-39 ARE YOU REMEMBER THE KIND OF ENERGY COUPLING USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	13	13	31	9	7	0	1	0	0
P1023 P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA	0	0	2	5	0	0	1	0	0
P1024 P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA	0	0	0	5	0	0	1	0	0

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828	
DY-15K										
P1025 P2-42 DO YOU DETERMINE THE POSITIONING OR SIZE OF APERTURES IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA	0	0	0	4	0	0	1	0	0	
P1026 P2-43 ARE CHOKE JOINTS USED IN WAVEGUIDES OR CAVITY	0	0	5	8	0	0	1	0	0	
RESONATORS YOU WORK WITH										
P1027 P2-44 ARE ROTATING JOINTS USED IN WAVEGUIDES OR CAVITY	0	0	27	5	2	0	1	0	0	
RESONATORS YOU WORK WITH										
P1028 P2-45 ARE DON'T REMEMBER THE KIND OF JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	25	25	29	12	10	0	1	0	0	
P1029 P2-46 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING	0	0	16	0	0	0	1	0	0	
P1030 P2-47 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE TUNING	0	0	5	15	5	0	1	0	0	
P1031 P2-48 DO YOU TUNE CAVITY RESONATORS USING VOLUME TUNING	0	0	10	12	2	0	1	0	0	
P1032 P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER THE METHOD OF TUNING	13	13	20	8	2	0	1	0	0	
P1033 P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY RESONATORS	13	13	31	24	5	0	1	0	0	
P1034 P3-01 IN YOUR PRESENT JOB DO YOU WORK WITH KLYSTRONS, TRAVELING WAVE TUBES (TWT), PARAMETRIC AMPLIFIERS, OR MAGNETRONS	38	38	54	31	10	0	1	0	0	
P1035 P3-02 DO YOU USE OR REFER TO INTERELECTRODE CAPACITANCE	25	25	5	15	2	0	1	0	0	
P1036 P3-03 DO YOU USE OR REFER TO ELECTRON TRANSIT TIME	0	0	5	12	2	0	1	0	0	
P1037 P3-04 DO YOU USE OR REFER TO LEAD INDUCTANCE	0	0	2	14	2	0	1	0	0	
P1038 P3-05 DO YOU USE OR REFER TO RF LOSSES IN EXTERNAL CIRCUITRY	25	25	17	22	2	0	1	0	0	
P1039 P3-06 DO YOU USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY MODULATION	13	13	5	17	0	0	1	0	0	
P1040 P3-07 DO YOU USE OR REFER TO ELECTRON BUNCHING	13	13	3	17	0	0	1	0	0	
P1041 P3-08 DO YOU WORK WITH TWO-CAVITY KLYSTRONS	25	25	7	16	0	0	1	0	0	
P1042 P3-09 DO YOU WORK WITH THREE-CAVITY KLYSTRONS	25	25	0	10	2	0	1	0	0	
P1043 P3-10 DO YOU WORK WITH REFLEX KLYSTRONS	25	25	10	28	5	0	1	0	0	
P1044 P3-11 DO YOU WORK WITH TRAVELING-WAVE TUBES (TWT)	25	25	5	20	10	0	1	0	0	
P1045 P3-12 DO YOU WORK WITH NONDEGENERATIVE PARAMETRIC AMPLIFIERS	0	0	8	4	5	0	1	0	0	
P1046 P3-13 DO YOU WORK WITH UP-CONVERTER PARAMETRIC AMPLIFIERS	13	13	14	3	2	0	1	0	0	
P1047 P3-14 DO YOU WORK WITH MAGNETRONS	38	38	49	10	2	0	1	0	0	
P1048 P3-15 DO YOU INSPECT KLYSTRONS OR TWT	25	25	7	27	10	0	1	0	0	
P1049 P3-16 DO YOU CLEAN KLYSTRONS OR TWT	13	13	2	20	10	0	1	0	0	
P1050 P3-17 DO YOU TUNE KLYSTRONS OR TWT ELECTRICALLY	25	25	7	26	2	0	1	0	0	
P1051 P3-18 DO YOU TUNE KLYSTRONS OR TWT MECHANICALLY	25	25	2	25	2	0	1	0	0	
P1052 P3-19 DO YOU PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR TWT	25	25	14	28	10	0	1	0	0	
P1053 P3-20 DO YOU TROUBLESHOOT KLYSTRONS OR TWT	25	25	10	26	5	0	1	0	0	
P1054 P3-21 DO YOU REMOVE OR REPLACE COMPLETE KLYSTRON OR TWT	25	25	10	28	10	0	1	0	0	
P1055 P3-22 DO YOU REMOVE OR REPLACE KLYSTRON OR TWT COMPONENTS	13	13	8	17	2	0	1	0	0	
P1056 P3-23 DO YOU INSPECT PARAMETRIC AMPLIFIERS	13	13	12	6	2	0	1	0	0	
P1057 P3-24 DO YOU CLEAN PARAMETRIC AMPLIFIERS	0	0	3	5	2	0	1	0	0	
P1058 P3-25 DO YOU ADJUST PARAMETRIC AMPLIFIERS	13	13	25	6	2	0	1	0	0	

PCI MBRS RESPONDING 'YES' BY DAFSC GROUPS

GP8008 PAGE 215

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

										DY-TSK										SPC									
																				A08 A09 A10 A11 A29 A25 A26 A27 A28									
P1059 P3-26 DO YOU TUNE PARAMETRIC AMPLIFIERS										13 13 20 6 0 0 1 0 0																			
P1060 P3-27 DO YOU PERFORM OPERATIONAL CHECKS OF PARAMETRIC AMPLIFIERS										13 13 29 6 0 0 1 0 0																			
P1061 P3-28 DO YOU TROUBLESHOOT PARAMETRIC AMPLIFIERS										13 13 22 5 2 0 1 0 0																			
P1062 P3-29 DO YOU REMOVE OR REPLACE COMPLETE PARAMETRIC AMPLIFIER										13 13 29 5 2 0 1 0 0																			
P1063 P3-30 DO YOU REMOVE OR REPLACE PARAMETRIC AMPLIFIER COMPONENTS										13 13 3 5 2 0 1 0 0																			
P1064 P3-31 DO YOU INSPECT MAGNETRONS										25 25 49 8 2 0 1 0 0																			
P1065 P3-32 DO YOU CLEAN MAGNETRONS										13 13 19 6 2 0 1 0 0																			
P1066 P3-33 DO YOU ADJUST MAGNETRONS										25 25 25 7 2 0 1 0 0																			
P1067 P3-34 DO YOU TUNE MAGNETRONS										25 25 27 8 2 0 1 0 0																			
P1068 P3-35 DO YOU PERFORM OPERATIONAL CHECKS OF MAGNETRONS										25 25 53 8 2 0 1 0 0																			
P1069 P3-36 DO YOU TROUBLESHOOT MAGNETRONS										25 25 47 7 2 0 1 0 0																			
P1070 P3-37 DO YOU REMOVE OR REPLACE COMPLETE MAGNETRON										25 25 49 8 2 0 1 0 0																			
P1071 P3-38 DO YOU REMOVE OR REPLACE MAGNETRON COMPONENTS										25 25 15 4 2 0 1 0 0																			
P1072 P3-39 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY ALYSTROMS COLLECTOR PLATES										25 25 3 15 0 0 1 0 0																			
P1073 P3-40 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY ALYSTROMS CATCHER CAVITIES										13 13 2 13 0 0 1 0 0																			
P1079 P3-41 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY ALYSTROMS CATCHER GRIDS										13 13 2 19 0 0 1 0 0																			
P1075 P3-42 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY ALYSTROMS FEEDBACK LOOPS										13 13 3 17 0 0 1 0 0																			
P1076 P3-43 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY ALYSTROMS DRIPT SPACES										0 0 2 10 0 0 1 0 0																			
P1077 P3-44 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY ALYSTROMS BUMCHER GRIDS										0 0 2 12 0 0 1 0 0																			
P1078 P3-45 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY ALYSTROMS BUMCHER CAVITIES										0 0 2 12 0 0 1 0 0																			
P1079 P3-46 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY ALYSTROMS CONTROL GRIDS										13 13 2 15 0 0 1 0 0																			
P1080 P3-47 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY ALYSTROMS CATHODES										13 13 3 16 0 0 1 0 0																			
P1081 P3-48 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX ALYSTROM REPELLER (REFLECTOR) PLATES										13 13 3 25 0 0 1 0 0																			
P1082 P3-49 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX ALYSTROM GRIDS										13 13 3 29 2 0 1 0 0																			
P1083 P3-50 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX ALYSTROM GRID CAVITY GAPS										13 13 2 20 0 0 1 0 0																			
P1084 P3-51 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX ALYSTROM RESONANT CAVITIES										25 25 5 29 5 0 1 0 0																			
P1085 P3-52 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX ALYSTROM MAGNETIC COUPLING LOOPS										25 25 2 16 2 0 1 0 0																			
P1086 P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX ALYSTROM FILAMENTS										13 13 3 23 5 0 1 0 0																			
P1087 P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX ALYSTROM CATHODES										25 25 3 23 2 0 1 0 0																			

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828	829
DY-TSK										
P1088 P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON OUTPUT LEADS	13	13	3	24	2	0	1	0	0	0
P1089 P3-56 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES FILAMENTS	0	0	5	17	2	0	1	0	0	0
P1090 P3-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES CATHODES	13	13	5	17	2	0	1	0	0	0
P1091 P3-58 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MODULATOR GRIDS	13	13	3	16	2	0	1	0	0	0
P1092 P3-59 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ANODES	13	13	5	18	2	0	1	0	0	0
P1093 P3-60 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES HELIXES	13	13	5	17	5	0	1	0	0	0
P1094 P3-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES COLLECTORS	13	13	5	16	0	0	1	0	0	0
P1095 P3-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MAGNETS	0	0	3	13	0	0	1	0	0	0
P1096 P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ATTENUATORS	13	13	10	17	5	0	1	0	0	0
P1097 P3-64 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF CIRCULATORS	13	13	7	3	0	0	1	0	0	0
P1098 P3-65 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF CAVITIES	13	13	5	4	0	0	1	0	0	0
P1099 P3-66 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF CAVITIES	0	0	2	3	0	0	1	0	0	0
P1100 P3-67 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF DIODES	0	0	2	6	0	0	1	0	0	0
P1101 P3-68 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF ISOLATORS	13	13	3	4	0	0	1	0	0	0
P1102 P3-69 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF BIAS BATTERIES	0	0	2	4	0	0	1	0	0	0
P1103 P3-70 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1104 P3-71 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1105 P3-72 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1106 P3-73 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1107 P3-74 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1108 P3-75 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1109 P3-76 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1110 Q1-01 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1111 Q1-02 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1112 Q1-03 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1113 Q1-04 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1114 Q1-05 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF P1115 Q1-06 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	13	13	2	5	0	0	1	0	0	0
	0	0	0	4	0	0	1	0	0	0
	0	0	2	6	0	0	1	0	0	0
	13	13	0	6	0	0	1	0	0	0
	0	0	5	6	2	0	1	0	0	0
	13	13	3	6	2	0	1	0	0	0
	0	0	3	5	0	0	1	0	0	0
	63	63	12	17	26	4	3	0	1	1
	63	63	10	17	31	4	1	1	1	1
	50	50	6	15	29	0	1	0	1	1
	50	50	8	15	24	0	2	0	1	1
	50	50	8	16	29	4	1	0	1	1
	38	38	8	15	29	0	1	0	1	1

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	A08	A09	A10	A11	A20	A25	A26	A27	A28
0116 01-07 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES HAVE PASSED	30	30	12	15	36	0	1	0	0
0117 02-01 DO YOU WORK WITH DIGITAL COUNTERS, REGISTERS, OR STORAGE DEVICES IN YOUR PRESENT JOB	50	50	44	34	33	16	2	4	2
0118 02-02 DO YOU USE OR REFER TO DELAY LINES	50	50	22	20	17	0	1	1	0
0119 02-03 DO YOU USE OR REFER TO MAGNETIC CORES	30	30	15	10	5	0	1	3	0
0120 02-04 DO YOU USE OR REFER TO MAGNETIC DRUMS	50	50	46	4	2	0	1	1	0
0121 02-05 DO YOU USE OR REFER TO MAGNETIC TAPES	50	50	24	5	7	0	2	1	1
0122 02-06 DO YOU USE OR REFER TO ACCESS TIME OR SPEED OR MEMORY SYSTEMS	50	50	20	9	12	0	2	3	0
0123 02-07 DO YOU USE OR REFER TO WORD CAPACITY OF MEMORY SYSTEMS	50	50	36	7	5	0	1	0	0
0124 02-08 DO YOU USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS	30	30	0	5	5	0	1	0	0
0125 02-09 DO YOU USE OR REFER TO LOGIC SYMBOL OF DELAY LINES	50	50	14	12	17	0	1	0	0
0126 03-01 IN YOUR PRESENT JOB, DO YOU WORK WITH DIGITAL-TO-ANALOG (D/A) CONVERTERS, ANALOG-TO-DIGITAL (A/D) CONVERTERS, OR BINARY-TO-DECIMAL READOUT CONVERTERS	30	30	24	24	36	0	1	0	0
0127 03-02 DO YOU COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS FOR GIVEN INPUT VOLTAGES	25	25	15	10	26	0	1	0	0
0128 03-03 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE COUNT IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS IS DETERMINED BY ADDING THE DENOMINATORS OF THE RESISTORS	25	25	7	0	19	4	1	0	0
0129 03-04 DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY COUNTS IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS	30	30	12	12	29	4	1	0	0
0130 03-05 DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	0	0	5	15	17	4	1	0	0
0131 03-06 DO YOU PERFORM HOLD FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	0	0	5	15	19	4	1	0	0
0132 03-07 DO YOU PERFORM COMPARE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	0	0	5	14	19	4	1	0	0
0133 03-08 DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	13	13	7	14	14	4	1	0	0
0134 03-09 DO YOU PERFORM DOWNT REMEMBER WHICH FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	25	25	0	6	10	0	1	0	0
0135 03-10 DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/D CONVERTERS	13	13	7	16	17	4	1	0	0
0136 03-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D CONVERTERS	13	13	7	15	14	4	1	0	0
0137 03-12 DO YOU USE OR REFER TO COMPARE FUNCTION OF A/D CONVERTERS	13	13	0	15	14	4	1	0	0
0138 03-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D CONVERTERS	30	30	0	16	17	4	1	0	0
0139 03-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-DIGITAL (A/D) CONVERTERS	13	13	7	10	5	0	1	0	0

PCT MBRS RESPONDING 'YES' BY DAESC GROUPS

GP8008 PAGE 218

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828	
RY140 R1-01 DO YOU WORK WITH PHANTASTRON CIRCUITRY IN YOUR PRESENT JOB	50	50	12	30	0	0	1	0	0	
RY141 R2-01 IN YOUR PRESENT JOB DO YOU WORK WITH SCHMITT TRIGGER CIRCUITS	75	75	0	57	31	16	5	1	0	
RY142 R2-02 DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER SCHEMATIC DIAGRAMS	75	75	7	51	33	16	3	1	0	
RY143 R2-03 DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS	50	50	7	40	31	12	3	0	0	
RY144 R3-01 IN YOUR PRESENT JOB DO YOU FABRICATE MULTICONDUCTOR CABLES	13	13	24	40	48	28	8	19	3	
RY145 R3-02 DO YOU FABRICATE COAXIAL CABLES	50	50	49	51	57	16	4	10	2	
RY146 R1-01 IN YOUR PRESENT JOB DO YOU PERFORM ANY TASKS ON VISUAL READOUT SYSTEMS	25	25	49	60	45	16	10	10	7	
RY147 R1-02 DO YOU PERFORM ANY TASKS ON MIXIE LIGHTS OR MIXIE LIGHT DECODER SYSTEMS	0	0	14	59	14	8	2	1	1	
RY148 R1-03 DO YOU ANALYZE MIXIE LIGHT DECODER SYSTEMS USING BOOLEAN ALGEBRA	0	0	7	17	7	4	2	0	0	
RY149 R2-01 DO YOU WORK WITH PHOTO TUBES IN YOUR PRESENT JOB	50	50	3	29	26	16	55	9	0	
RY150 R3-01 IN YOUR PRESENT JOB DO YOU WORK WITH CHOPPER CIRCUITS	63	63	24	41	19	24	6	1	0	
RY151 R3-02 DO YOU MEASURE EXCITATION FREQUENCIES	50	50	12	20	12	12	1	0	0	
RY152 R3-03 DO YOU MEASURE VOLTAGE-CURRENT PHASE RELATIONSHIPS	25	25	12	14	10	16	3	0	0	
RY153 R3-04 DO YOU USE OR REFER TO EXCITATION FREQUENCIES	38	38	12	19	10	12	2	0	0	
RY154 R3-05 DO YOU USE OR REFER TO VOLTAGE-CURRENT PHASE RELATIONSHIPS	38	38	10	14	10	4	4	0	0	
RY155 R3-06 DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	50	50	17	20	19	24	4	1	0	
RY156 R3-07 DO YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	38	38	22	25	21	12	3	3	0	
RY157 R3-08 DO YOU USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	63	63	22	23	24	20	2	3	0	
RY158 R3-09 DO YOU USE COMPARISON CIRCUITS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	63	63	17	26	19	16	2	1	0	
RY159 R1-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH INFRARED SYSTEMS	38	38	76	2	43	24	2	0	2	
RY160 R1-02 DO YOU INSPECT INFRARED SYSTEMS	13	13	69	1	38	12	1	0	1	
RY161 R1-03 DO YOU CLEAN INFRARED SYSTEMS	13	13	41	1	38	12	1	0	0	
RY162 R1-04 DO YOU ADJUST OR CALIBRATE INFRARED SYSTEMS	13	13	71	1	40	4	1	0	0	
RY163 R1-05 DO YOU OPERATE INFRARED SYSTEMS	13	13	70	1	38	8	2	0	0	
RY164 R1-06 DO YOU TROUBLESHOOT WIRE CONNECTIONS OF INFRARED SYSTEMS	13	13	76	1	38	12	1	0	1	
RY165 R1-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARED SYSTEMS	13	13	75	1	38	8	1	0	0	
RY166 R1-08 DO YOU TROUBLESHOOT DOWN TO INFRARED SYSTEM COMPONENT PARTS	13	13	54	1	38	0	1	0	0	
RY167 R1-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF INFRARED SYSTEMS	13	13	70	1	38	12	1	0	1	
RY168 R1-10 DO YOU REMOVE OR REPLACE INFRARED SYSTEM COMPONENT PARTS	13	13	47	1	36	0	1	0	0	

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-15K

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828
11169 11-11 DO YOU USE OR REFER TO FAR REGION	25	25	5	1	31	0	1	0	0
11170 11-12 DO YOU USE OR REFER TO INTERMEDIATE REGION	30	30	7	1	31	0	1	0	0
11171 11-13 DO YOU USE OR REFER TO NEAR REGION	25	25	7	1	29	0	1	0	0
11172 11-14 DO YOU USE OR REFER TO MICRON	25	25	14	2	36	0	1	0	0
11173 11-15 DO YOU USE OR REFER TO GRAY BODIES	30	30	7	0	36	4	1	0	0
11174 11-16 DO YOU USE OR REFER TO BLACK BODIES	30	30	7	1	30	4	1	0	0
11175 11-17 DO YOU USE OR REFER TO ABSORPTION	30	30	22	1	38	8	1	0	0
11176 11-18 DO YOU USE OR REFER TO SCATTERING	25	25	10	0	33	8	1	0	0
11177 11-19 DO YOU USE OR REFER TO ABSOLUTE ZERO	30	30	15	1	36	0	1	0	0
11178 11-20 DO YOU PERFORM TASKS ON BLITZ	13	13	0	0	2	0	1	0	0
11179 11-21 DO YOU PERFORM TASKS ON TARGET BUTTIONS	13	13	0	0	2	0	1	0	0
11180 11-22 DO YOU PERFORM TASKS ON ERECTOR LENSES	13	13	2	0	5	4	1	0	0
11181 11-23 DO YOU PERFORM TASKS ON OCULAR LENSES	25	25	5	1	10	4	1	0	0
11182 11-24 DO YOU PERFORM TASKS ON CORRECTION LENSES	25	25	2	0	12	8	1	0	0
11183 11-25 DO YOU PERFORM TASKS ON FILTERS	13	13	10	1	21	16	1	3	0
11184 11-26 DO YOU PERFORM TASKS ON SPHERICAL MIRRORS	25	25	3	0	19	4	1	0	0
11185 11-27 DO YOU PERFORM TASKS ON PLANE MIRRORS	13	13	2	0	26	12	1	1	0
11186 12-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH LASERS	25	25	2	1	62	0	2	0	1
11187 12-02 DO YOU INSPECT LASER SYSTEMS	0	0	0	0	60	0	2	0	1
11188 12-03 DO YOU CLEAN LASER SYSTEMS	0	0	0	0	60	0	2	0	0
11189 12-04 DO YOU OPERATE LASER SYSTEMS	0	0	0	1	60	0	2	0	0
11190 12-05 DO YOU OPERATE LASER SYSTEMS	0	0	0	1	60	0	2	0	0
11191 12-06 DO YOU TROUBLESHOOT WIRE CONNECTIONS OF LASER SYSTEMS	0	0	0	0	60	0	2	0	0
11192 12-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF LASER SYSTEMS	0	0	0	0	60	0	2	0	0
11193 12-08 DO YOU TROUBLESHOOT TO COMPONENT PARTS OF LASER SYSTEMS	0	0	0	0	40	0	1	0	0
11194 12-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF LASER SYSTEMS	0	0	0	0	60	0	2	0	1
11195 12-10 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF LASER SYSTEMS	0	0	0	0	50	0	1	0	0
11196 12-11 DO YOU USE OR REFER TO ANGSTROMS (A)	25	25	2	1	43	0	2	0	0
11197 12-12 DO YOU USE OR REFER TO ELECTRON ENERGY LEVELS	25	25	2	0	36	0	1	0	0
11198 12-13 DO YOU USE OR REFER TO GROUND STATE	25	25	2	1	40	0	1	0	0
11199 12-14 DO YOU USE OR REFER TO EXCITED STATE	25	25	2	1	45	0	1	0	0
11200 12-15 DO YOU USE OR REFER TO PACKET OF RADIATION	25	25	2	0	26	0	1	0	0
11201 12-16 DO YOU USE OR REFER TO PHOTONS	25	25	2	1	38	0	1	0	0
11202 12-17 DO YOU USE OR REFER TO SPONTANEOUS EMISSION	25	25	2	0	38	0	1	0	0
11203 12-18 DO YOU USE OR REFER TO STIMULATED EMISSION	25	25	2	1	38	0	1	0	0
11204 12-19 DO YOU USE OR REFER TO COMEPCENCE OR INCOMEPCENCE	25	25	2	0	43	0	2	0	0
11205 12-20 DO YOU USE OR REFER TO INVERSIION LEVEL	13	13	0	0	21	0	1	0	0
11206 12-21 DO YOU USE OR REFER TO MONOCHROMATIC	13	13	0	1	29	0	2	0	0
11207 12-22 DO YOU WORK WITH ACTIVE MATERIALS	13	13	0	0	29	0	2	0	0
11208 12-23 DO YOU WORK WITH PUMPING SOURCES	13	13	0	0	40	0	2	0	0
11209 12-24 DO YOU WORK WITH FULL SILVERED (A008 REFLECTIVE) MIRRORS	13	13	0	0	38	0	1	1	0

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828	828
11210 12-25 DO YOU WORK WITH HALF SILVERED (92% REFLECTIVE)	13	13	0	0	38	0	2	1	0	
MIRRORS										
11211 12-26 DO YOU WORK WITH HELICAL FLASHTUBES	13	13	0	0	36	0	1	0	0	
11212 12-27 DO YOU WORK WITH RUBY	13	13	0	0	43	0	1	0	0	
11213 12-28 DO YOU WORK WITH HELIUM-NEON	0	0	0	0	29	0	1	0	0	
11214 12-29 DO YOU WORK WITH HELIUM-XENON	0	0	0	0	17	0	1	0	0	
11215 12-30 DO YOU WORK WITH XENON	0	0	0	0	19	0	1	0	0	
11216 12-31 DO YOU WORK WITH CESIUM-HELIUM	0	0	0	0	10	0	1	0	0	
11217 12-32 DO YOU WORK WITH ARGON	0	0	0	0	12	0	1	0	0	
11218 12-33 DO YOU WORK WITH NEODYMIUM IN GLASS	0	0	0	0	14	0	1	0	0	
11219 12-34 DO YOU WORK WITH GALLIUM ARSENIDE	0	0	0	0	19	0	1	0	0	
11220 13-01 IN YOUR PRESENT JOB DO YOU WORK WITH DISPLAY TUBES, SUCH AS DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE TUBES (MMST)	63	63	69	13	7	8	1	0	0	
11221 13-02 DO YOU INSPECT DVST OR MMST	25	25	51	10	7	8	1	0	0	
11222 13-03 DO YOU CLEAN DVST OR MMST	13	13	31	8	7	8	1	0	0	
11223 13-04 DO YOU ADJUST OR CALIBRATE DVST OR MMST	13	13	61	8	5	4	1	0	0	
11224 13-05 DO YOU OPERATE SYSTEMS THAT CONTAIN DVST OR MMST	36	36	66	11	7	8	1	0	0	
11225 13-06 DO YOU TROUBLESHOOT DVST OR MMST	25	25	56	10	5	8	1	0	0	
CIRCUITS										
11226 13-07 DO YOU REMOVE OR REPLACE DVST OR MMST TUBES FROM MAJOR ASSEMBLIES OR UNITS	25	25	20	10	5	8	1	0	0	
11227 13-08 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME THE VARIOUS ELEMENTS OF DVST	50	50	3	5	2	0	1	0	0	
11228 13-09 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME THE VARIOUS ELEMENTS OF MMST	50	50	42	4	2	0	1	0	0	
11229 13-10 DO YOU PERFORM TASKS ON FLOOD GUNS	25	25	37	7	0	0	1	0	0	
11230 13-11 DO YOU PERFORM TASKS ON WRITE GUNS	25	25	29	7	0	0	1	0	0	
11231 13-12 DO YOU PERFORM TASKS ON ATTACK GUNS	25	25	42	4	0	0	1	0	0	
11232 13-13 DO YOU PERFORM TASKS ON ERASE GUNS	25	25	42	7	0	0	1	0	0	
11233 13-14 DO YOU PERFORM TASKS ON STORAGE GRIDS	25	25	37	8	0	0	1	0	0	
11234 13-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY PROGRAMMING TASKS	25	25	17	4	5	4	2	0	2	
11235 13-02 DO YOU USE OR REFER TO DECIMAL SYSTEMS	25	25	19	4	2	0	1	0	1	
11236 13-03 DO YOU USE OR REFER TO PROGRAMS	25	25	14	3	5	0	2	0	2	
11237 13-04 DO YOU USE OR REFER TO HEXIDECIMAL SYSTEMS	13	13	3	1	5	0	1	0	0	
11238 13-05 DO YOU USE OR REFER TO 8-4-2-1 SYSTEMS	25	25	10	3	0	4	1	0	0	
11239 13-06 DO YOU USE OR REFER TO FOUR SYSTEMS	0	0	0	1	0	0	1	0	0	
11240 13-07 DO YOU USE OR REFER TO BINARY SYSTEMS	25	25	19	4	2	4	1	0	0	
11241 13-08 DO YOU USE OR REFER TO TIME-SHARING	25	25	14	2	0	0	1	0	0	
11242 13-09 DO YOU USE OR REFER TO DATA WORDS	25	25	19	2	5	0	2	0	1	
11243 13-10 DO YOU USE OR REFER TO ADDRESS WORDS	25	25	14	3	5	0	2	0	0	
11244 13-11 DO YOU USE OR REFER TO ADDRESS/SUBADDRESS	25	25	8	2	2	0	2	0	0	
11245 13-12 DO YOU USE OR REFER TO STEERING/INFORMATION	25	25	15	2	5	0	1	0	0	
11246 13-13 DO YOU USE OR REFER TO INFORMATION WORDS	25	25	12	2	2	0	1	0	1	
11247 13-14 DO YOU PERFORM TASKS ON SINGLE LEVEL PROGRAMMING	0	0	2	3	2	0	2	0	1	
11248 13-15 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING	0	0	2	2	2	0	1	0	1	

AD-A050 612

AIR FORCE OCCUPATIONAL MEASUREMENT CENTER LACKLAND A--ETC F/G 5/9
SUMMARY REPORT FOR AFSCS TRAINED AT LOWRY AFB.(U)
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PCT MEMRS RESPONDING 'YES' BY DATSC GROUPS

GROUPOR PAGE 221

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DT-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	A08	A09	A10	A11	A20	A25	A26	A27	A28	
U1249 U1-16 DO YOU PERFORM TASKS ON INPUT DEVICES	25	25	14	3	0	4	1	0	1	
U1250 U1-17 DO YOU PERFORM TASKS ON STORAGE DEVICES	25	25	12	3	2	4	1	0	1	
U1251 U1-18 DO YOU PERFORM TASKS ON ARITHMETIC SECTIONS	25	25	12	3	0	0	1	0	0	
U1252 U1-19 DO YOU PERFORM TASKS ON CONTROL SECTIONS	13	13	14	3	0	4	2	0	0	
U1253 U1-20 DO YOU PERFORM TASKS ON OUTPUT DEVICES	13	13	15	2	2	4	2	0	1	
U1254 U1-21 DO YOU PERFORM TASKS ON POWER SUPPLIES	13	13	17	2	2	4	3	0	0	
U1255 U2-01 DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND ATTENUATION	63	63	56	70	26	12	3	0	1	
U1256 U2-02 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN DECIBELS	50	50	5	42	7	0	2	0	0	
U1257 U2-03 DO YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN DECIBELS	50	50	5	41	7	0	2	0	0	
U1258 U2-04 DUMMY TASK TO IDENTIFY INCUMBENTS WHO PERFORMED NO TASKS	0	0	0	100	0	0	96	3	4	